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## Faculty Positions

### Department of Materials Science and Engineering

The Department of Materials Science and Engineering (DMSE) seeks candidates for two open tenure-track faculty positions to begin July 2015 or thereafter. Appointments would be at the assistant or untenured associate professor level. In special cases, a senior faculty appointment may be possible. Faculty duties include teaching at the graduate and undergraduate levels, research, and supervision of student research.

Candidates should hold a Ph.D. in Materials Science and Engineering or a related field by the start of employment. Candidates with deep knowledge of the core of Materials Science and Engineering are desired. DMSE seeks to broaden its research portfolio in two areas:

- **Materials chemistry.** Including: surface science and surface chemical reactions, catalysis, corrosion, surface treatment, colloids, chemical assembly of materials, bio-inspired assembly of materials, polymer science
- **Mechanics and microstructure.** Including: mechanics of heterophase architectures (integrated electronics, advanced composites, etc.), advanced microstructure characterization including in-situ and in-operando methods, materials process modeling, computational design of materials and microstructure

However, DMSE has strengths and interests across the full spectrum of materials research, and excellent candidates with expertise in **any and all areas of the field** are welcomed.

MIT has a number of Institute-wide initiatives under way or in development, on topics that include Manufacturing, Energy, Environment, and Health. Individuals who can connect to these initiatives are of interest.

Interested candidates should submit application materials electronically at <http://dmsefacsrch.mit.edu>. Each application should include: a curriculum vitae; a statement of research interests; and a statement of teaching interests. We request that each candidate arrange for three letters of reference to be uploaded at <http://dmsefacsrch.mit.edu/letters/>. Questions should be addressed to [DMSE-Search-Master@dmsefacsrch.mit.edu](mailto:DMSE-Search-Master@dmsefacsrch.mit.edu).

Responses received by December 31, 2014, will be given priority. No application received after February 1 will be considered in this year's search.

*We especially encourage minorities and women to apply because of MIT's strong commitment to diversity in engineering education, research and practice.*

<http://web.mit.edu>



ÉCOLE POLYTECHNIQUE  
FÉDÉRALE DE LAUSANNE

## Faculty Position in Materials Electron Microscopy at the Ecole polytechnique fédérale de Lausanne (EPFL)

The School of Engineering of EPFL invites applications for a **tenure track assistant professor in electron microscopy of materials** within its Institute of Materials. We seek exceptional individuals who will develop and drive a research program at the forefront of the discipline, who have a strong dedication to teaching at the undergraduate and graduate levels, and who will be proactive members of a vibrant Materials community.

Top-level applications are invited from candidates at the cutting edge of electron microscopic imaging as applied to materials science and engineering. Areas of interest include, but are not limited to, high-resolution imaging, 3D and 4D imaging, advanced analysis methods, and innovative modeling approaches, as applied to the structural characterization of materials by means of electron microscopy.

Start-up resources and the state-of-the-art research infrastructure at EPFL's Interfaculty Center for Electron Microscopy (CIME) will be made available for the successful candidate. Salaries and benefits are internationally competitive.

EPFL, with its main campus located in Lausanne, Switzerland, is a dynamically growing and well-funded institution fostering excellence and diversity. It has a highly international campus at an exceptionally attractive location boasting

first-class infrastructure. As a technical university covering essentially the entire palette of engineering and science, EPFL offers a fertile environment for research cooperation between different disciplines. The EPFL environment is multi-lingual and multi-cultural, with English often serving as a common interface.

Applications should include a cover letter with a statement of motivation, curriculum vitae, list of publications and patents, concise statement of research and teaching interests, and the names and addresses of at least five referees. Applications must be uploaded in PDF format to the recruitment web site: <http://go.epfl.ch/emm-search>

Formal evaluation of candidates will begin on **December 1<sup>st</sup>, 2014**.

Enquiries may be addressed to:  
**Prof. Harm-Anton Klok**  
Search Committee Chair  
e-mail: [emm-search@epfl.ch](mailto:emm-search@epfl.ch)

For additional information on EPFL, please consult the web sites: [www.epfl.ch](http://www.epfl.ch), [sti.epfl.ch](http://sti.epfl.ch), [imx.epfl.ch](http://imx.epfl.ch) and [cime.epfl.ch](http://cime.epfl.ch).

*EPFL is committed to increasing the diversity of its faculty, and strongly encourages women to apply.*

MRS



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# JOB BOARD



# UC San Diego

## Jacobs School of Engineering

### FULL, ASSOCIATE, OR ASSISTANT PROFESSOR

Department of NanoEngineering | University of California, San Diego

The Department of NanoEngineering (<http://ne.ucsd.edu>) at the University of California, San Diego, which combines Materials and Chemical Engineering around Nanotechnologies for the Jacobs School of Engineering, invites applications for **tenure-track or tenured faculty positions** at the Assistant, Associate, or Full Professor levels (series based on skills experience and qualifications). The NanoEngineering Department is within Jacobs School of Engineering and is committed to building an excellent, diverse, and inclusive faculty, staff, and student body (<http://www.jacobsschool.ucsd.edu/diversity>).

Successful candidates are expected to carry out forefront research in the technical field of Advanced Nanomaterials, and teach classes related primarily to Chemical Engineering. The candidates will be expected to have a PhD degree in the field of Chemical Engineering, Materials Science and Engineering (MSE), or similar related field, to support the Materials and Chemical Engineering focuses of the department. Candidates should have expertise in undergraduate/graduate education in Chemical Engineering, and can provide evidence of effective and innovative teaching. Exceptional candidates in all other areas will be given serious consideration.

#### TO APPLY, please submit:

- (I) a letter of interest including specific synergies envisioned with our faculty
- (II) curriculum vitae, including the list of publications and professional activities
- (III) a statement of research interests and teaching experience, including a summary of leadership efforts
- (IV) a separate statement describing your past experience in activities that promote diversity and inclusion and/or plans to make future contributions. For further information about contributions to diversity statements, see <http://facultyequity.ucsd.edu/Faculty-Applclicant-C2D-Info.asp>
- (V) the names and email addresses of three references, using the online application

All applicant materials including referee info should be submitted via UCSD Academic Personnel On Line Recruit at <https://apopl-recruit.ucsd.edu/apply/JPF00645>.

Responsibilities include, but are not limited to, teaching of the primary undergraduate laboratory courses, core Chemical Engineering classes, improvement of curriculum, help coordination of ABET accreditation activities, development and assessment of new educational initiatives including the application of grants related to the curriculum, and serving as the faculty advisor to the student organizations. A successful candidate will also be part of the campus Institute for Materials in Energy Technologies Initiative and may have close ties with the Centers for Energy Research, Wearable Sensors and for Robotics within the Jacobs School of Engineering, enhancing cross-campus collaborations, while spearheading a strong independent research program in materials and/or nanotechnologies related to the energy sector. The research areas of primary interest to the department are: advanced nanomaterials, including 'smart' (stimuli-responsive, self adaptive) materials and flexible stretchable materials, nanoscale assembly, catalysis, nanobiomaterials, nanofabrication and manufacturing, and nanoscale actuators, with potential applications to energy, healthcare, electronics, robotics or sensing.

UC San Diego strives to maintain a climate of fairness, cooperation, and professionalism that enables us to attract a more diverse cross section of faculty in terms of gender, nationality, and ethnicity, and candidates who have a demonstrated track record of enhancing diversity are strongly encouraged to apply. Candidates with experience with or willingness to engage in activities that contribute to diversity and inclusion are especially encouraged to apply. For applicants interested in spousal/partner employment, please see the Web site for the UCSD Partner Opportunities Program at <http://academicaffairs.ucsd.edu/offices/partneropp/default.htm>.

#### SALARY:

Level of appointment and salary is commensurate with qualifications based on UC pay schedules and market conditions.

#### CLOSING DATE:

Candidates applying by **November 30, 2014** will be given full consideration. Position is open until filled.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, age or protected veteran status.

## TENURE-TRACK FACULTY POSITIONS

### Experimental Materials Science

The Department of Physics invites applications for two tenure-track faculty positions to begin in August 2015. An Assistant Professor is sought in Materials Science with preference in energy-related materials. A second position, either at the Assistant or Associate Professor-level, is open in the general field of Materials Characterization.

Applicants should indicate the position and level they are applying for in their cover letter and submit it, using the online application link, together with a teaching philosophy statement, and a research plan. The Online Application link is available at <http://www.usf.edu/about-usf/work-at-usf.aspx>.

Associate Professor applicants must have an established research program with evidence of grant support. The candidate should also arrange for three letters of recommendation to be sent to [phymaterialsearch@usf.edu](mailto:phymaterialsearch@usf.edu). Applications completed by **December 15, 2014** will receive full consideration.

The University of South Florida is a high-impact, global research university dedicated to student success. USF ranks 50th in the nation for federal expenditures in research and total expenditures in research among all U.S. universities, public or private, according to the National Science Foundation. Serving more than 47,000 students, the USF System has an annual budget of \$1.5 billion and an annual economic impact of \$3.7 billion. USF is a member of the Big East Athletic Conference. According to Florida Law, applications and meetings regarding them are open to the public. For ADA accommodations, please contact Daisy Matos at [dmatos@usf.edu](mailto:dmatos@usf.edu) at least five working days prior to need.

USF is an Equal Opportunity Institution.



## NC STATE UNIVERSITY



### ASSISTANT PROFESSOR

#### Department of Materials Science and Engineering

The Department of Materials Science and Engineering (MSE) at North Carolina State University seeks applications/nominations for new faculty at the rank of Assistant Professor (tenure track). MSE is currently composed of 27 tenure/tenure-track faculty with traditional strengths in electronic/optical materials and structural materials, in addition to recently established strengths in nanotechnology, structural characterization, biological materials, computational materials, and magnetic materials. Shared research facilities, including the Analytical Instrumentation Facility, provide state-of-the-art major analytical tools for materials characterization.

Outstanding candidates with expertise in all areas of materials science and engineering will be considered, although candidates with expertise in structural metallurgy, metallic glasses, organic electronics, and electrochemistry are of particular interest.

Faculty will be on a clear trajectory to become national and international leaders in their respective fields and will work in an interdisciplinary team with common intellectual goals. Candidates must have exceptional record of publishing and demonstrated promise for external funding and scientific leadership. All candidates must possess a PhD in MSE or a related discipline at the time of appointment and the ability to teach at the undergraduate and graduate levels in MSE.

All nominations and applications should be submitted electronically via [www.jobs.ncsu.edu](http://www.jobs.ncsu.edu), position number **00004741**. Specific information about the positions can be obtained via e-mail to [Justin\\_Schwartz@ncsu.edu](mailto:Justin_Schwartz@ncsu.edu).

AA/EOE. In addition, NC State welcomes all persons without regard to sexual orientation or genetic information. Persons with disabilities requiring accommodations in the application and interview process please call (919) 515-3148.

## FACULTY POSITION



The Department of Materials Science and Engineering (MSE), College of Engineering, University of Michigan, invites outstanding applicants for a tenure-track faculty position in the area of functional properties of materials with an emphasis on inorganic materials and devices.

#### DESCRIPTION

This position is for an experimentalist at the assistant or associate professor level, although full professor candidates may be considered if the application is exceptional. Emphasis will be placed on applicants with a record of research accomplishment in one or more of the following areas: electronic, optical, and magnetic materials—properties characterization and synthesis, as well as innovative device applications using functional materials.

#### QUALIFICATIONS

We seek individuals who have demonstrated strong interest and capability in both science and engineering, capable of contributing to and leading multidisciplinary teams. The applicant must hold a PhD degree in MSE or a related field, and should be qualified and passionate about teaching undergraduate and graduate courses within the field. We seek candidates who will provide inspiration and leadership in research, and contribute to the academic mission of the institution. We are especially interested in candidates who contribute, through their research, teaching, and service, to the diversity and excellence of the academic community.

#### APPLYING

Candidates should submit a cover letter, resume, research and teaching plans, publication list, and the names of four references to our web site at <http://www.mse.engin.umich.edu/facultysearch/fmse>. Review of applications will begin **December 1**. Applications received after that date will be considered until the position is filled.

University of Michigan is responsive to needs of dual career families, and an affirmative action, equal opportunity employer.

#### CONTACT INFORMATION

E-mail: [fmse-search@umich.edu](mailto:fmse-search@umich.edu)  
 Subject: Functional Materials Science and Engineering (FMSE) Faculty Search  
 Attn: Chair, Department of Materials Science and Engineering  
 The University of Michigan  
 2300 Hayward Street  
 Ann Arbor, MI 48109-2136



## Faculty Position in Biomaterials at the Ecole polytechnique fédérale de Lausanne (EPFL)

The School of Engineering of EPFL invites applications for a **tenure track assistant professor in biomaterials** within its Institute of Materials with a possible joint appointment in the Institute of Bioengineering. We seek exceptional individuals who will develop and drive a research program at the forefront of the discipline, who have a strong dedication to teaching at the undergraduate and graduate levels, and who will be proactive members of a vibrant Materials community.

Top-level applications covering all areas of biomaterials science and engineering are invited including, but not limited to biomolecular, biomimetic, bio-inspired and biomedical materials.

Start-up resources and state-of-the-art research infrastructure will be available. Salaries and benefits are internationally competitive.

The Institute of Materials at EPFL is well integrated in the School of Engineering and has close interactions with the Institute of Bioengineering. Further exciting opportunities for interactions exist with the Schools of Life Sciences and Basic Sciences, as well as with the newly founded Wyss Center and the University Hospital of Lausanne (CHUV).

EPFL, with its main campus located in Lausanne, Switzerland, is a dynamically growing and well-funded institution fostering excellence and diversity. It has a highly international campus at an exceptionally attractive location boasting first-class infrastructure. As a technical university covering essentially the entire palette of engineering and science, EPFL offers a fertile environment for research cooperation between different disciplines. The EPFL environment is multi-lingual and multi-cultural, with English often serving as a common interface.

Applications should include a cover letter with a statement of motivation, curriculum vitae, list of publications and patents, concise statement of research and teaching interests, and the names and addresses of at least five referees. Applications must be uploaded in PDF format to the recruitment web site: <http://go.epfl.ch/imx-search>

Formal evaluation of candidates will begin on **December 1<sup>st</sup>, 2014**.

Enquiries may be addressed to:  
**Prof. Harm-Anton Klok**  
Search Committee Chair  
e-mail: [imx-search@epfl.ch](mailto:imx-search@epfl.ch)

For additional information on EPFL, please consult the web sites: [www.epfl.ch](http://www.epfl.ch), [sti.epfl.ch](http://sti.epfl.ch), [imx.epfl.ch](http://imx.epfl.ch) and [ibi.epfl.ch](http://ibi.epfl.ch).

*EPFL is committed to increasing the diversity of its faculty, and strongly encourages women to apply.*



## PROFESSOR

Princeton University seeks a distinguished senior or mid-career scholar to be a leading faculty member within the Andlinger Center for Energy and the Environment ([acee.princeton.edu](http://acee.princeton.edu)). Candidates from all disciplines in engineering and the sciences are welcome. The successful candidate will receive a joint faculty appointment between ACEE and an academic department that will depend on the candidate's particular field. Potential research areas of interest include but are not limited to: energy conversion and storage, biosynthesis of or biomass conversion to fuels, carbon capture and storage, energy-water nexus, energy-related environmental research, green computing, smart grids, and smart buildings. Complete applications, including cover letter, curriculum vitae, and succinct descriptions of teaching and research interests should be submitted online at <https://jobs.princeton.edu> (see requisition #1400688). Candidates are encouraged to apply before **December 31, 2014**.

Princeton University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law. This position is subject to the University's background check policy.



## FACULTY

**Materials Science and Engineering**  
Virginia Polytechnic Institute and State University

The Department of Materials Science and Engineering (MSE) at Virginia Tech seeks applications to fill a senior level tenure-track faculty position at the Associate/Full Professor level. A doctoral degree or equivalent in a relevant area of materials science and engineering is required. Candidates with backgrounds and accomplishments in radiation hardened devices/sensors, nuclear security, and/or nuclear medical applications are especially encouraged to apply.

Applicants should apply at [www.jobs.vt.edu](http://www.jobs.vt.edu) to posting number **TR0140112**. Initial review of applications will begin on **December 15, 2014**, and will continue until the position is filled. The anticipated start date for this position is August 2015.

*Virginia Tech is an Equal Opportunity/  
Affirmative Action Employer*



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## AFRICAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (AUST)

### ACBF - AUST CHAIR/FACULTY VACANCIES

#### ACBF Chairs/Faculty Positions in Materials Science and Engineering

The African University of Science and Technology is one of the Nelson Mandela Institutions (NMIs) for knowledge building in Africa. It was established in 2007 as a regional center of excellence that is dedicated to training the next generation of African Scientists and Engineers. It is our goal to become a world class institution that will contribute to global knowledge, while addressing African challenges and opportunities. We have a transparent admissions process and are committed to a merit-based process of appointment, promotion and retention of faculty and staff.

AUST is located in the modern city of Abuja, which is the capital city of Nigeria the country with the largest economy in Africa. We offer attractive salaries, excellent on-campus accommodation and recreational facilities for families. Our students are some of the very best on the African continent. So far, our Pan African scholars have been selected from 19 African countries. We are also beginning to have a growing impact on industries and academia in Sub-Saharan Africa.

AUST invites applications at the Assistant, Associate and Full Professor levels. Candidates are encouraged to apply in the following areas:

- Material for Energy, with a focus on solar energy, light emitting devices and energy storage;
- Biomaterial with focus on nano medicine and tissue engineering, and
- Mineral processing and chemical metallurgy with a focus on the extraction, beneficiation and the processing and properties of materials.

Applications should include brief a research statement and a summary of teaching interests. Special priority will be given to candidates with creative and original research ideas and rigorous/innovative approaches to the teaching of Materials Science and Engineering. Applications should also include a Curriculum Vitae and the names of three to five referees. These should be emailed to [facultysearch@aust.edu.ng](mailto:facultysearch@aust.edu.ng). The review of applications will begin immediately.

However, we will continue to receive and consider applications until all of the available positions are filled.

AUST is an equal opportunity employer that is committed to gender diversity.

## FACULTY POSITIONS



The Materials Science and Engineering Department (MSE) in conjunction with the Advanced Materials Processing and Analysis Center (AMPAC) at the University of Central Florida (UCF) invites applications for multiple tenure-track or tenured faculty positions (Assistant, Associate, Full Professor) in the areas of sustainable materials, energy materials, biomaterials, smart materials, green manufacturing, and combinatorial materials. The position requires a PhD degree from an accredited institution and successful candidates will be expected to teach in the department. Competitive packages are available.

The MSE Department has 7 tenured faculty members (2 NSF CAREER, 1 ONR YIA), 22 affiliated faculty, and over 90 graduate students and postdoctoral associates. Collaboration with researchers in academic departments, schools, and centers, including the NanoScience Technology Center (NSTC), Center for Research and Education in Optics and Lasers (CREOL), Florida Solar Energy Center (FSEC), College of Medicine, and Burnett School of Biomedical Sciences is encouraged and supported. Numerous collaboration opportunities are available with external organizations and research centers located within a few miles of the UCF campus, including Siemens Energy, Lockheed Martin, Florida Hospital, Sanford-Burnham Medical Research Institute, Nemours Children Hospital, and the Veterans Health Administration.

UCF has over 60,000 students and is a comprehensive research and education institute. Located in Orlando, UCF is at the center of the I-4 High Tech Corridor. The corridor has an excellent industrial base that includes software, defense, space, simulation and training, and a world-renowned entertainment industry.

Review of applications will begin on **November 15, 2014** and continue until the positions are filled. The online application can be found at <https://www.jobswithucf.com/postings/39499> and <https://www.jobswithucf.com/postings/39609>. In addition to the application, interested candidates must also submit a CV, a one-page statement of research plans, a one-page statement of teaching philosophy, and list of three references with addresses, phone numbers, and email addresses. Applicants are encouraged to submit application packages for both positions for consideration. Only online applications will be considered. For questions please contact [MSEinquiry@ucf.edu](mailto:MSEinquiry@ucf.edu).

UCF is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply. As an agency of the State of Florida, UCF makes all application materials, including transcripts, and selection procedures available for public review upon request.



## FACULTY POSITIONS

Bilkent University



### UNAM-National Nanotechnology Research Center and Institute of Materials Science and Nanotechnology

The National Nanotechnology Research Center (UNAM) at Bilkent University, Ankara, Turkey, invites applications for faculty positions at all levels in the field of nanoscience, nanotechnology, and materials science.

Bilkent University has endeavored to serve as a world-class research university since its inception. This aspiration has been amply met by Bilkent University, which has been ranked among the world's top 100 universities for engineering and technology. UNAM was established at Bilkent University to promote excellence in the fields of nanoscience and nanotechnology in Turkey. Our distinguished faculty and research infrastructure provide an excellent environment for interdisciplinary studies, with approximately 400 researchers in fields ranging from theoretical physics to peptide chemistry.

UNAM infrastructure was established and is being supported by the Ministry of Development of the Republic of Turkey to satisfy the needs of researchers and to give them a head start when setting up their own research group. UNAM functions as a national user facility with currently over 800 users from industry and academia. In addition to its intense research programs, UNAM is also dedicated to train high caliber graduate students through its Material Science and Nanotechnology program. UNAM is accepting its graduate students from top ranking national and international institutions.

Applicants should have strong scholarly achievements and should be established in their research field. Candidates are expected to develop an internationally recognized research group, to guide PhD students, and to have commitment to pursue projects with industrial collaborations. Applications can be submitted on our website at [www.nano.org.tr](http://www.nano.org.tr) with a CV, detailed research and teaching statements, and a list of three references.



## FACULTY POSITIONS

Center for Condensed Matter Sciences  
National Taiwan University

The Center for Condensed Matter Sciences, as a premiere research center at the National Taiwan University, has immediate openings for tenure-track faculty positions. Rank of faculty positions will match the candidates' qualifications. Applicants with excellent credentials in cutting edge condensed matter research fields, such as emerging materials or advanced spectroscopic and microscopic techniques, in both fundamental and applied aspects, will be considered.

Applicants should send resume, publication list, research plans, and three letters of recommendation to:

Director, Prof. Li-Chyong Chen  
Center for Condensed Matter Sciences  
National Taiwan University  
Taipei 106, Taiwan  
Center Assistant: Wei-Lin Chou  
Email: [cwli1828@ntu.edu.tw](mailto:cwli1828@ntu.edu.tw)  
Phone: (02) 3366-5201  
Fax: (02) 2365-5404

Closing date for applications is December 31, 2014.

## ASSISTANT PROFESSOR



PRINCETON  
UNIVERSITY

### DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING

The Department of Mechanical and Aerospace Engineering (MAE) at Princeton University is conducting a broad search for **TWO (2) TENURE-TRACK ASSISTANT PROFESSORS**. We welcome applications from all areas in mechanical and aerospace engineering, including but not limited to the fields of robotics, lightweight structures, nonlinear mechanics, engineering systems, propulsion, and energy systems and efficiency. Applicants must hold a PhD degree in Engineering, Materials Science, Physics, or a related subject, and have a demonstrated record of excellence in research with the potential to establish an independent research program. We seek faculty members who will create a climate that embraces excellence and diversity, with a strong commitment to teaching and mentoring.

Princeton's MAE department has a long history of leadership in its core areas of Applied Physics, Dynamics and Controls, Fluid Mechanics, Materials Science, and Propulsion and Energy Sciences, with additional strength in cross-disciplinary efforts impacting areas such as biology, the environment, security, and space. We seek creative and enthusiastic candidates with the background and skills to build upon and complement our existing departmental strengths and those who can lead the department into new and exciting research areas in the future.

To ensure full consideration, applications should be received by **DECEMBER 1, 2014**. Applicants should submit a curriculum vitae, including a list of publications and presentations, a 3-5 page summary of research accomplishments and future plans, a 1-2 page teaching statement, and contact information for at least three references online at [HTTP://JOBS.PRINCETON.EDU](http://JOBS.PRINCETON.EDU), requisition number **1400675**. Personal statements that summarize leadership experience and contributions to diversity are encouraged.

Princeton University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law. We welcome applications from members of all underrepresented groups. This position is subject to the University's background check policy.



## TENURE-TRACK FACULTY POSITION

### Materials Engineering

The Materials Research and Education Center at Auburn University seeks an outstanding individual for a tenure-track faculty position in the Samuel Ginn College of Engineering. Candidates will be considered at the assistant, associate, and full professor levels. Candidates are sought that enhance strategic areas targeted by the department for growth. In particular, emphasis will be placed on applicants with a record of research accomplishments in: (1) Microfluidics/Biosensing, (2) Additive Manufacturing, and (3) Energy Generation, Conversion & Storage.

The successful candidate will be expected to establish a strong individual research program in one of the above areas. Associate level applicants and higher must demonstrate an active nationally and internationally recognized program. The candidate will be expected to participate in large-scale, multidisciplinary team efforts in one of the above areas. The appointee will teach both undergraduate and graduate courses in materials engineering and develop innovative, cross-disciplinary instructional activities.

The successful candidate must be professionally trained in materials science and engineering and hold a PhD from an accredited institution. The intended start date is January 1st, 2015. Applications will be accepted until the position is filled. The review of applications will begin October 6, 2014. A link to the posting and application can be found at <http://aufacultypositions.peopleadmin.com/postings/609>.

The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time appointment is scheduled to begin, and must continue working legally for the proposed term of employment.

*Auburn University is an Affirmative Action/Equal Opportunity Employer. It is our policy to provide equal employment opportunities for all individuals without regard to race, sex, religion, color, national origin, age, disability, protected veteran status, genetic information, or any other classification protected by applicable law.*

Auburn University is located in the City of Auburn, which was recently ranked in the top 10 nationally of Best Small Cities for Education as well as one of the top 10 places to live nationally. The university was chartered in 1856 and has an enrollment of approximately 25,000 students. It is ranked in the top 50 of public institutions. The picturesque main campus covers 1,875 acres and includes the entire southwest quadrant of the city of Auburn.

**PURDUE**  
UNIVERSITY

## TURNER PROFESSOR OF ENGINEERING

School of Materials Engineering and Electrical and Computer Engineering

The Schools of Materials Engineering and Electrical and Computer Engineering at Purdue University invite applications for the **Turner Professor of Engineering**. The Turner Professorship is a tenured joint appointment at the named full professor level in the two schools.

Submit applications online at <https://engineering.purdue.edu/Engr/InfoFor/Employment>, including curriculum vitae, teaching and research plans (each 3 pages maximum), and names of three references. For information/questions regarding applications contact Marion Ragland, Faculty Recruitment Coordinator, College of Engineering, at [ragland@purdue.edu](mailto:ragland@purdue.edu). Address questions regarding the positions to Prof. Srinivasan Chandrasekar, Turner Search Committee Chair, [chandy@purdue.edu](mailto:chandy@purdue.edu). Review of applications will begin on October 1, 2014 and will continue until position is filled. A background check will be required for employment in this position.

Successful candidates must hold an earned PhD degree in Materials Science and Engineering, Electrical Engineering, or a related discipline, and demonstrate excellence in the broad area of electronic materials. The successful candidate will have experience with supporting a vibrant, collaborative research program and have been recognized as a leader in some aspect of electronic materials. This includes, but is not limited to, electronic, photonic, and nanoscale phenomena, and research interests may focus on experimental, computational, or theoretical aspects of electronic materials. The Turner chair is responsible for carrying out original research, advising graduate students, teaching undergraduate and graduate level courses, and performing service activities for both Schools. Candidates with the interest and skills to contribute to an inclusive climate as demonstrated by their experience working with diverse groups of students, faculty, and staff are particularly welcome. The anticipated start date is August 2015.

The College of Engineering at Purdue is currently undergoing extensive growth, with over one hundred faculty position openings being filled over the next five years. The successful candidate will work in a collaborative environment, utilizing existing and building new partnerships with the Schools and the Discovery Park facilities, including the Birck Nanotechnology Center and the Purdue Community Cluster program with Conte, the nation's fastest university owned supercomputer. For a detailed description of research activities within the Schools, College, and Discovery Park see <https://engineering.purdue.edu/Engr> and <http://www.purdue.edu/discoverypark/>.

Purdue's main campus is located in West Lafayette Indiana, a welcoming and diverse community with a wide variety of cultures, industries, and excellent schools. Purdue and the College of Engineering have a Concierge Program to assist new faculty and their partners regarding dual career needs and facilitate their relocation.

Purdue University is an EEO/AA employer fully committed to achieving a diverse workforce. All individuals, including minorities, women, individuals with disabilities, LGBTQ, and veterans are encouraged to apply.



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## POSTDOCTORAL FELLOWSHIP PROGRAM IN GEMOLOGY AT GIA

GIA (Gemological Institute of America) invites candidates to apply for Richard T. Liddicoat Postdoctoral Research Associate positions at its New York City and Carlsbad, California locations. Selected applicants will research fundamental issues in gemology involving diamonds, colored stones, pearls, and instrument development. The specific focus will depend on each applicant's interests and expertise, as well as GIA research and laboratory initiatives. The Institute's laboratories are fully equipped with professional equipment including all types of spectrometry, chemical analysis, X-ray imaging, and other research tools. GIA also facilitates access to outside research facilities.

Research Associate appointments are for one year and may be extended for a second year. The positions are fully funded, and include a benefits subsidy, and travel stipend as appropriate.

### Requirements

Applicants should hold a Ph.D. in a relevant scientific field, preferably obtained within the last three years. Effective communication in English with scientific and production staff, the ability to prepare written scientific articles for publication, and a willingness to travel are strongly desired.

Applicant evaluations will commence immediately and continue until positions are filled. Starting date is negotiable.

**For more information about these openings, including application requirements and to apply:**

Visit: [careers-gia.icims.com](http://careers-gia.icims.com)

Please contact Dr. Wuyi Wang at [wwang@gia.edu](mailto:wwang@gia.edu) for questions or inquiries.

[www.gia.edu](http://www.gia.edu)

GIA is an Equal Opportunity Employer

## The University of Wisconsin-Madison Tenure-Track and Tenured Positions in the Grainger Institute for Engineering



[graingerinstitute.engr.wisc.edu](http://graingerinstitute.engr.wisc.edu)

The **College of Engineering** at the University of Wisconsin-Madison invites applications for up to six tenured/tenure-track faculty positions in the areas of advanced manufacturing and accelerated materials discovery. The faculty members will be appointed as Grainger Institute Fellows within the newly launched **Grainger Institute for Engineering** and will have appointments in one or more academic departments within the College of Engineering.

The **Grainger Institute for Engineering** serves as a new research incubator within the **College of Engineering**. The Institute fosters a vibrant trans-disciplinary research and educational environment for addressing grand technological challenges. New research directions will be launched and nurtured within the Institute, with initial targeted efforts in the areas of advanced manufacturing and accelerated materials discovery.

Successful candidates will be expected to maintain a world-class extramurally funded graduate research program on technological problems that are relevant to the needs of the profession and of society. They will also contribute to the education and professional development of undergraduate and graduate students, and engage in department, college, university, community, and professional service activities as appropriate.

**The anticipated start date is August 2015.**

*For complete position descriptions and how to apply:*

**Advanced Manufacturing**  
Grainger Institute for Engineering  
[go.wisc.edu/Manufac](http://go.wisc.edu/Manufac)

**Accelerated Materials Discovery**  
Grainger Institute for Engineering  
[go.wisc.edu/MatDisc](http://go.wisc.edu/MatDisc)

UW-Madison is an equal opportunity/affirmative action employer. Madison, Wisconsin, is consistently ranked as one of the top cities in the nation with the highest quality of life.



Department of Energy National Nuclear Security Administration

## Stewardship Science Graduate Fellowship

Providing outstanding benefits and opportunities to students pursuing a Ph.D. in areas of interest to stewardship science: **properties of materials under extreme conditions and hydrodynamics, nuclear science or high energy density physics.**

### BENEFITS

- \$36,000 yearly stipend
- Payment of full tuition and required fees
- \$1,000 yearly academic allowance
- Attend yearly program review
- 12-week research practicum
- Renewable up to four years

APPLY ONLINE: [www.krellinst.org/ssgf](http://www.krellinst.org/ssgf)



U.S. DEPARTMENT OF ENERGY



APPLICATIONS DUE 1.14.2015

This program is open to U.S. citizens and permanent resident aliens studying at a U.S. university who are senior undergraduates or are in their first or second year of graduate study. This equal opportunity program is open to all qualified persons without regard to race, gender, religion, age, physical disability or national origin.

# FACULTY POSITION

Department of Materials Science & Engineering



LEHIGH  
UNIVERSITY

Lehigh University is one of the seven recipients in 2010 of an NSF ADVANCE Institutional Transformation Grant to enhance recruitment, retention, and the advancement of women faculty in Science, Technology, Engineering, and Mathematics (STEM) fields at Lehigh.

Lehigh Valley Inter-regional Networking & Connecting (LINC) is a newly created regional network of diverse organizations designed to assist new hires with dual career, community, and cultural transition needs. Please contact [infcdcap@lehigh.edu](mailto:infcdcap@lehigh.edu) for more information.

Lehigh University seeks to fill a tenure-track position at the Assistant Professor level in Materials Science and Engineering. The department is searching for an outstanding individual who can establish a high quality research program in photonic, optoelectronic, or nanoelectronic materials, with a focus on materials synthesis/growth for devices and materials characterization. Areas of research specialization might include, but are not limited to, 2D layered materials, compound semiconductors, plasmonics/metamaterials, multiferroics, and materials for flexible and biocompatible technologies.

A PhD degree in Materials Science and Engineering or a related discipline is required, as well as demonstrated ability in teaching and research. The successful candidate will be responsible for teaching undergraduate and graduate courses in the Materials Science and Engineering curriculum. A strong desire to perform interdisciplinary research and a willingness to collaborate across departmental boundaries is essential, with strong synergies likely to be found in both the newly formed Center for Photonics and Nanoelectronics (<http://www.lehigh.edu/cpn>) and the Center for Advanced Materials and Nanotechnology (<http://www.lehigh.edu/nano>).

Review of applications will begin **December 1, 2014** and continue until the position is filled. Applications should be submitted on-line at <https://academicjobsonline.org/ajo/jobs/4723>. Please submit a CV that includes a research statement describing a minimum of two externally fundable research programs (3-6 pages), and a description of teaching philosophy at the undergraduate and graduate levels (1-2 pages). Informal inquiries may be addressed to Prof. Chris Kiely at [chk5@lehigh.edu](mailto:chk5@lehigh.edu).

Lehigh University is an affirmative action/equal opportunity employer and does not discriminate on the basis of age, color, disability, gender, gender identity, genetic information, marital status, national or ethnic origin, race, religion, sexual orientation, or veteran status. Lehigh University provides comprehensive benefits including partner benefits.



# FACULTY POSITION

## Nanoscience Technology Center

**The NanoScience Technology Center (NSTC) at the University of Central Florida (UCF) invites applications for multiple tenure-track or tenured faculty positions at all levels (Assistant, Associate, Full Professor) in the area of nanoscience and nanotechnology with emphasis on scalable nanomanufacturing (0-3D, with special emphasis on growth), nanomaterials, biological and environmental nanosensors, nano-environmental health and safety, or nano-biotechnology. Strong candidates with research programs in other emerging nanotechnology areas will also be considered. Applicants must have a PhD degree in science, engineering, or related disciplines from an accredited institution and will be expected to teach in their respective discipline. In order to obtain the associate or full professor rank, the selected candidate must have a demonstrated record of teaching, research, and service commensurate with the department's tenure criteria.**

NSTC consists of 18 faculty (including NSF & NIH CAREER, KO1, ONR YIP, and DARPA YIA award recipients) and over 120 graduate students, postdoctoral associates, and research staff members. Collaboration with researchers in academic departments, schools, and centers, including the College of Medicine, College of Optics and Photonics and Center for Research and Education in Optics and Lasers (CREOL), Advanced Materials Processing and Analysis Center (AMPAC), and Florida Solar Energy Center (FSEC) is encouraged and supported. Numerous collaboration opportunities are available with external organizations and research centers located within a few miles of the UCF campus, including Siemens Energy, Lockheed Martin, Florida Hospital, Orlando Regional Medical Center, Sanford-Burnham Medical Research Institute, Nemours Children Hospital, the Veterans Health Administration, and the Florida Advanced Manufacturing Research Center.

UCF has over 60,000 students and is a comprehensive research and education institute. Located in Orlando, UCF is at the center of the Florida High Tech Corridor. The corridor has an excellent industrial base that includes software, defense, space, simulation and training, and a world-renowned entertainment industry.

Review of applications will begin on **November 17, 2014** and continue until the positions are filled. The online application can be found at <https://www.jobswithucf.com/postings/39799>. In addition to the application, interested candidates must also submit a CV, a 3-5 page statement of research plans, a one-page statement of teaching philosophy, and list of three references with addresses, phone numbers, and email addresses. Only online applications will be considered. For questions please contact [NSTCsearch@ucf.edu](mailto:NSTCsearch@ucf.edu).

UCF is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply. As an agency of the State of Florida, UCF makes all application materials, including transcripts, and selection procedures available for public review upon request.