Campus Monterrey
The School of Engineering and Information Technologies

CALL FOR POSITIONS

Tecnologico de Monterrey, a comprehensive teaching and research university in Mexico, is conducting a recruiting initiative and invites highly qualified professionals to apply for ten (10) visiting faculty positions in the School of Engineering and Information Technologies at Campus Monterrey. Professors looking for a Sabbatical or Visiting Teaching position are also encouraged to apply.

These positions will be filled primarily at the junior faculty level, however, exceptional candidates with a higher rank might be as well considered. Selected candidates will be offered a one to two-year contract with a possibility of extending it for a longer period or for a permanent faculty position based on the interest of the candidates and the institution.

All successful applicants must have a Ph.D. in the requested discipline or a Ph.D in Education with a master in such discipline, and should have demonstrated a passion for innovative teaching as well as an ability to conduct applied and multidisciplinary research in his/her discipline and to innovate in the field of teaching methodologies. They must have a strong commitment to undergraduate education and possess comprehensive knowledge of their field of study as well as strong oral and written communication skills, (English language) and excellent interpersonal abilities to work collaboratively in a multidisciplinary team environment.

The new faculties are expected to focus mainly on teaching (in English) at the undergraduate level. All new faculties are also expected to engage in one of the research groups that are well established at the University.

The ten (10) faculty positions are offered in the following departments:

**Mechanical Engineering Department** (3 positions)

The applicants must have a Ph.D. in Mechanical Engineering, Physics, Materials Engineering or Material Science. Preference will be given to candidates with expertise in fields related to:

- Computational mechanics (Numerical Methods, Finite Element Analysis, Computer Fluid Dynamics, or Boundary Element Analysis),
- Automotive Design (Internal Combustion Engines and Alternate Power Sources for Transportation Systems).
- Micro and Nanotechnology with emphasis on synthesis and/or characterization of micro/nanoscale materials.
Chemical Engineering Department (1 position)

Previous involvement in research activities on any of the following energy field is desirable: renewable energy, energy efficiency and alternative sources.

Electrical and Computer Engineering Department (2 positions)

Candidates should have an interest and an expertise in one or several areas such as power systems, power electronics and energy conversion, electric vehicles, batteries & energy storage, and smart grid technologies. Previous involvement in research activities on any of the mentioned areas is desirable.

Civil Engineering Department (1 position)

The applicant will be expected to teach courses in the areas of Structural Design, Advanced Reinforced Concrete and Earthquake Engineering. Knowledge in the use and management of a Structures Laboratory is highly desirable.

Mechatronics Engineering Department (2 positions)

A strong background and interest on Kinematics, Dynamics of Multi-body Systems, or Design of Robotic Manipulators is expected.

Industrial Engineering Department (1 position)

The applicant should have a strong interest and some experience in Applied Statistics or in Applied Mathematics with emphasis on any of the following areas: Statistical Computing, Multivariate Statistical Methods, Distributions Theory, Linear Models, Statistical Inference, Sampling, and Statistical Design of Experiments. Previous experience on statistical consulting activities related to any of the following areas is desirable: applications of survey sampling/public opinion polls, financial risks or manufacturing processes.

Applications must be submitted to the following e-mail address: jaime.bonilla@itesm.mx.

The closing date for receiving applications is September 30th, 2013.
Tecnologico de Monterrey

We are a multi-campus university system with 33 campuses throughout Mexico with an enrollment of 60,000 students. We have also established an international presence through our 21 sites and numerous liaison offices in 12 foreign countries, offering information and continuing education programs, and carrying out consulting and research projects.

We are a private, non-profit, independent educational institution with no political or religious affiliation. Our operations started 70 years ago and nowadays our institution accounts for more than 250,000 alumni and 65% of them have or have had their own company 25 years after graduation.

We have been a SACS accredited university for more than 5 decades, our undergraduate engineering academic programs are ABET accredited and our graduate programs are ranked as programs of excellence by the National Council for Science and Technology (CONACYT).

More than 50% of our students have an international academic/professional experience before graduation thanks to the more than 500 international agreements we have with universities and companies throughout the world.

The vibrant environment in our campus is the result of many cultural and sports activities coming from the more than 300 student clubs as well as from our Cultural and Sports Offices, and the presence of companies either recruiting or posing challenges to our students, as well as acting as applied research sponsors are a common sight in our university.

Our university environment fosters an entrepreneurial spirit and a global vision that together with the intensive use of technology in education, the interdisciplinary environment and the interaction with companies create in our students the competences required by society to face the challenges of the 21st century. Accomplishment of such competences has resulted in a high employability index for our students and consequently we are ranked, according to the QS World Report, as number one in the employer’s preference in Latin America and amongst the first 100 throughout the world.

Campus Monterrey (http://www.itesm.edu/wps/wcm/connect/ITESM/Tecnologico+de+Monterrey/English)
Campus Monterrey has an enrollment of 16,000 students and is located in the City of Monterrey in the northern region of Mexico, in the State of Nuevo Leon, just about 130 miles south of the border with the USA (Texas). Monterrey is considered the second most industrialized city in Mexico after Mexico City and it is the third largest Mexican city with a population of 4.5 million, accounting for many important clusters as well as national and multinational conglomerates in the banking, steel, electronics manufacturing, nanotechnology, software, and aerospace industry sectors.

School of Engineering and Information Technologies
The School of Engineering and Information Technologies at Campus Monterrey has an enrollment of nearly 6,000 students in 17 undergraduate majors, 17 master programs and two Ph.D. programs. The School is driven by over 200 faculty tenured professors with teaching activities in 10 academic departments and with research and innovation activities in 12 R&D Centers and Laboratories. All researchers are encouraged and expected to engage in innovative and collaborative work with colleagues within the School of Engineering and Information Technologies as well as from other schools: Health Sciences, Biotechnology, Humanities, Business, and Design and Architecture.