

**Research Engineer position in ADVANCED PHOTONIC DEVICES AND
SYSTEMS FOR TELECOMMUNICATION APPLICATIONS.**

The Institute of Engineering of the National Autonomous University of Mexico (UNAM) is the top Mexican engineering research center (www.ii.unam.mx) dealing with topics that ranges from traditional structural analysis to applied superconductivity. Since its foundation, the Institute has conducted research to generate innovative designs and to solve actual technical problem. It has a long tradition of collaboration with public and private organizations to improve the national engineering practice. The Institute pays special attention to the training of human resources, the encouragement of original scientific research, and the dissemination of the corresponding results, thus contributing to the country's development and society's welfare.

In order to strengthen its research staff, the Institute invites members of the national and international scientific community to apply for the position of **RESEARCH ENGINEER** at its Mexico City campus.

Applications are encouraged from candidates with research interest in the area of **ADVANCED PHOTONIC DEVICES AND SYSTEMS FOR TELECOMMUNICATION APPLICATIONS.**

The successful applicant is expected to carry out high quality research throughout basic and applied engineering projects to significantly contribute to the solution of Mexican problems and to facilitate technology transfer that impacts in the development of Mexico. His/her duties will include the publication of results in top-ranked refereed journals, participation in national and international conferences, formulation of research proposals to attract funding, supervision of graduate students and teaching at graduate or undergraduate level.

Candidates should possess:

- A doctoral degree in engineering or a closely related discipline from a recognized university.
- A solid track record in research demonstrated through publications in internationally renowned (*e.g.* ISI indexed) journals.
- Proven experience in teaching and supervision of students.
- Hands-on experience at industrial or laboratory level with optical devices, systems or sub-systems (design, analysis, characterization).
- Excellent theoretical knowledge and simulation skills in topics such as pulse propagation in optical fibers, nonlinear optical effects, lasers and amplifiers, optical interconnects, WDM systems and signal processing.
- Capacity for team work and outstanding oral and written communication skills in English.
- Intention to learn Spanish (for non-native speakers).

Candidates should electronically (pdf) submit their applications to lsanudoc@ii.unam.mx, containing the following documentation:

1. Cover letter with research and teaching statement
2. CV containing a list of publications (maximum three pages)
3. Copy of the doctoral degree diploma
4. Copy of the doctoral thesis
5. Copy of main research products
6. Copy of birth certificate or passport
7. The name, position and e-mail addresses of three academic references

Review of applications will begin immediately but full consideration will be given to applications submitted no later than **31 October 2014**