

**Positions Available**

**PRINCIPAL SCIENTISTS & RESEARCH ENGINEERS  
Nova Crystals, Inc.**

**COMPANY:**

Nova Crystals, Inc. ([www.NovaCrystals.com](http://www.NovaCrystals.com)) is a fabless photonics innovation house. The company is developing high-performance photonic devices for the optical networking, wire-less communications, solid state lighting, and intra-chip communications markets. The company is currently located in Ithaca, NY but is relocating its operations to the Bay Area, California in January 2000. The open positions will be filled at the California location.

**PRINCIPAL SCIENTIST:**

Nova seeks entrepreneurial-minded scientists or engineers to join Nova Crystals as Principal Scientists (PS) to help develop the company's materials and photonic device technologies. Reporting to the company's Vice President of R&D, the PS will be responsible for innovative idea leadership and execution in the company's focus areas. The PS will also lead a team of PhDs in designing and prototyping devices based on the company's intellectual properties. The PS should be self-motivated with strong teamwork, leadership, and communication skills.

**RESEARCH ENGINEER:**

Nova seeks entrepreneurial-minded Research Engineers (RE) to help develop the company's materials and photonic device technologies. Reporting to the company's Principal Scientists, the RE will be responsible for "out-of-the-box" problem solving in the company's focus areas; and leading teams of internal and external partners in the design and prototyping of devices based on the company's intellectual properties. The RE should be self-motivated with strong teamwork, leadership, and communication skills.

**TECHNICAL REQUIREMENTS:**

The successful PS or RE candidate will have a PhD or equivalent degree in electrical engineering/applied physics/materials science and engineering with experience conducting research in an industrial or government lab. PS candidates should have 10+ years experience; RE candidates should have 3+ years experience. The successful candidate will have broad knowledge and deep expertise in III-V electronic and opto-electronic device physics and materials science. Typical devices including VCSELs (semiconductor and non-semiconductor based), visible LEDs, infrared LEDs, Avalanche detectors, and "smart-" III-V and Si wafers.

**COMPENSATION:**

The company offers a competitive compensation package that includes a base salary, an equity signing bonus, year-end performance-based bonuses in cash and equity, a competitive 401(k) plan, and a comprehensive medical and dental plan. Interested candidates should send cover letter and CV by **January 10, 2000** to:

Maria Rosetti  
Nova Crystals, Inc., 30 Brown Road, Ithaca, NY 14850  
Fax: 607-257-2995  
E-mail: [maria\\_rosetti@novacrystals.com](mailto:maria_rosetti@novacrystals.com)

**FACULTY POSITIONS  
University of North Texas**

Applications are invited for two full-time tenure-track faculty positions in the Chemistry, Materials Science, and/or Physics Departments to work within the newly established Laboratory for Electronic Materials and Devices. The Laboratory includes more than \$3M of state-of-the-art interconnected instrumentation with unique electronic materials synthesis and characterization capabilities. The rank of both positions is open and candidates are expected to demonstrate a record of research and publications in the respective areas.

The first position is in **ion beam studies of electronic materials** requiring expertise in the ion beam characterization of electronic materials and an extensive background in ion beam technology. The second position is in **materials synthesis and characterization** requiring expertise in film deposition technologies such as CVD and MBE or in the design and synthesis of precursors to electronic materials suited to these technologies. Candidates should have a PhD degree in physics, chemistry, electrical engineering, materials science, or an equivalent discipline. Successful candidates must have demonstrated the ability to develop externally-funded research programs in these areas. Extensive collaboration with faculty associated with the Laboratory is expected.

Applicants should address curriculum vitae, a statement of research plans and interests, teaching experience, previous funding, departmental preference, and names of at least three references to: Chair, LEMD Search Committee, College of Arts and Sciences, P.O. Box 305189, University of North Texas, Denton, TX 76203-5189: See <http://www.cas.unt.jobs/htm>.

*UNT is an AA/ADA EOE that encourages applications from minority group members and women.*

**FACULTY POSITIONS  
Department of Materials Science  
and Engineering  
University of California, Los Angeles**

The Department of Materials Science and Engineering at the University of California, Los Angeles invites applications for tenure-track or tenured faculty position(s) in the following areas:

- Opto-electronic Materials
- Computation Materials Science
- Biomedical Materials

Candidates must have demonstrated outstanding originality, ability, and breadth through research accomplishments. They should also demonstrate the potential for excellence in teaching at undergraduate and graduate levels.

Please send resume, references, and information on research and career interests to:

Department of Materials Science  
and Engineering  
6531 Boelter Hall  
University of California, Los Angeles  
P.O. Box 951595  
Los Angeles, CA 90095-1595  
[www.seas.ucla.edu/ms/](http://www.seas.ucla.edu/ms/)

Deadline for applications is **January 31, 2000**.

*UCLA is an Equal Opportunity Employer*

**FACULTY POSITION  
Chemical and Materials  
Engineering Department  
California State Polytechnic University**

The California State Polytechnic University, Pomona, Chemical and Materials Engineering Department invites applications for a tenure-track faculty position in materials engineering. Applicants must have an earned Doctorate in Materials Engineering or a closely related field, and experience in one or more of the following areas: electronic materials, structural ceramics, physical metallurgy, composites, polymers, materials processing, synthesis, selection, and design. Qualified candidates must demonstrate potential in the primary function of exceptional teaching and possess excellent communication skills.

For information, contact Faculty Search Committee, Chemical and Materials Engineering Department, California State Polytechnic University, Pomona, 3801 West Temple Avenue, Pomona, CA 91768; Tel: 909-869-2626; Fax: 909-869-6920, or E-mail: [jwaldrich@csupomona.edu](mailto:jwaldrich@csupomona.edu). A review of completed applications will begin on **January 31, 2000** and will continue until the position is filled. Applicants must be lawfully authorized to work in the U.S.

*The University is an EOE/AA employer and only accepts degrees from accredited educational institutions.*