

## NOW HIRING



**Position:** Postdoctoral Associate – High-Speed Big-Data Networking  
**Institution:** University of Massachusetts Lowell  
**Location:** Lowell, Massachusetts, USA  
**Type:** Full-Time  
**Salary:** \$48,000 to \$65,000 USD per Year

**General Summary of Position:** The Advanced Communication Network Research Laboratory (ACNL) at the University of Massachusetts Lowell invites outstanding candidates for a full-time, benefited, two-year postdoctoral associate position in the areas of high-speed big-data networks. ACNL is a vibrant, forward-looking laboratory that runs an internationally recognized networking research program for NSF and DoE sponsors.

A postdoctoral associate is sought to help design and develop innovative solutions to challenging next-generation high-speed communication network problems. The candidate should be highly driven, growth-oriented, and capable of demonstrating potential as an independent researcher. Responsibilities include the deployment of novel technologies on the DoE's Energy Sciences network (ESnet). Work will involve collaboration with researchers at Lawrence Berkeley National Laboratory (LBNL) and Argonne National Laboratory. Knowledge of ESnet and the On-demand Secure Circuits and Advance Reservation System (OSCARS) is highly desired.

The University of Massachusetts Lowell is committed to increasing diversity in its faculty, staff, and student populations, as well as curriculum and support programs, while promoting an inclusive environment. We seek candidates who can contribute to that goal and encourage you to apply and to identify your strengths in this area.

### **Minimum Qualifications:**

- Earned Doctorate in Computer Engineering, Computer Science or closely related field by June 2015.
- Experience in one or more of the following research areas: optical networking, Internet protocols, SDN, test-bed implementation, discrete-event simulations, linear programming, queueing theory, and performance evaluation.
- Strong background in writing/helping PI with NSF/DoE research proposals.
- Strong analytical and problem solving skills.
- Strong programming skills in C/C++/Java/Matlab.
- Strong presentation and communication skills including experience with LaTeX.

### **Desirable Attributes:**

- Publications in optical networking and software defined networking.
- Experience in the area of optical sub-systems and components.
- Hands-on experience with tools such as OSCARS, SDN/OpenFlow, Floodlight, Mininet, CPLEX, AMPL.
- Ability to work independently, with limited direction, as well as within a team environment.
- Ability to mentor and inspire younger students with limited research experience.

**Special Instructions:** This is a 2 year appointment contingent upon continued external funding. Initial review of applications will begin January 15, 2015 and continue until position is filled. However, the position listing may close when an adequate number of qualified applicants are received.

**Application Procedure:** For full consideration qualified candidates must send their curriculum vitae, transcripts of all graduate coursework with GPA, list of publications, a statement describing their qualifications, and arrange for three letters of reference to be sent to Prof. Vinod Vokkarane at [vinod\\_vokkarane@uml.edu](mailto:vinod_vokkarane@uml.edu).