Thermal Management Research Opening

**Bell Labs**, the innovation engine of **Alcatel-Lucent**, is a worldwide research and development community that focuses its efforts on key technologies for telecommunications. It is internationally renowned as the birthplace of modern information theory, the transistor, the laser and the UNIX operating system.

**Bell Labs Murray Hill**

Bell Labs' research facility in **Murray Hill**, New Jersey carries out leading-edge research, enabling next-generation communications systems to be optimally designed, produced and managed in the context of the complex global value chain.

We have a research opening in our Thermal Management Research Group.

A successful candidate is expected to carry out innovative research as part of the group’s development of thermal management technologies that extend the limits of air-cooling and/or increase the energy efficiency of our systems.

**Main duties and responsibilities:**

- Understand the thermal management and eco-sustainability needs of Alcatel-Lucent business units and devise research projects which impact them.
- Patent and publish on innovative technologies to manage heat in Alcatel-Lucent hardware and/or increase its energy efficiency.
- Conduct independent research using modelling and/or experimental techniques.
- Drive outputs of research into Alcatel-Lucent products and, when necessary, assist business units in developing thermal solutions.
- Publish results in archival conference proceedings and journals.
- Collaborate with our university partners.

**Likely qualifications, knowledge, and experience**

- A PhD in Mechanical, Chemical or Materials Engineering or a related field with an emphasis on heat transfer or other type of transport phenomena and/or energy.
- Ability to conduct independent research while also contributing to team-oriented projects. A successful candidate will be versatile, flexible, hands-on, and a self-starter.
- Experience in one or more of the following areas is desirable
  - Modelling of heat transfer in electronic systems
  - Multiphase heat transfer
  - Experimentation in heat transfer or other types of transport phenomena
  - Thermal management of electronics and/or HVAC system design
  - Experience in the development and/or application of CFD/FEA
  - Sustainable energy/novel energy generation techniques
  - Computational or experimental aeroacoustics
- Additionally candidates must have:
  - Strong written and spoken communications skills
  - Proven problem solving and analysis ability

A comprehensive benefits package exists including relocation costs. Applications by email to Susanne Arney (arney@alcatel-lucent.com), Bell Labs Murray Hill.
Summer Internship in Thermal Management

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Bell Labs Murray Hill

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We are looking for applicants for a 10-week summer internship program in the Thermal Management Research Group in Murray Hill, New Jersey.

The Bell Labs Summer Internships provide hands on educational experiences for a diverse pool of talented and highly motivated college students. Each year, these opportunities expose many of the brightest college students to Alcatel-Lucent's corporate environment. The objective of the program is to provide employment with positive work/training experience and to identify and track potential regular full-time employees. Interns receive project-focused assignments and challenging objectives consistent with their career goals. Interns also are assigned a mentor in addition to their supervisor/coach. The program will culminate in a final project presentation describing the results achieved during the assignment.

Qualifications

Work Authorization: Must be U.S. Citizen, Permanent Resident, Temporary Resident, Asylee, or Refugee. Will accept students on F-1 VISA dependent upon program requirements.

Applications by email to Susanne Arney (arney@alcatel-lucent.com), Bell Labs Murray Hill.

Please also fill out an application online at:
http://www.alcatel-lucent.com/careers

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