***Job Reference: 2959189***

***UTRCI Research Scientist, Building HVAC Modeling***

**Grade: L6-L5**

United Technologies Research Center (UTRC) delivers advanced technologies to the businesses of United Technologies Corporation (UTC). UTC (NYSE:UTX) is a diversified company that provides a broad range of high-technology products and services to the global aerospace and building systems industries. UTC's commercial businesses are Otis elevators and escalators and UTC Climate, Controls & Security, a leading provider of heating, ventilation, air conditioning, fire and security systems, building automation and controls. UTC’s aerospace businesses are Sikorsky Aircraft Corporation and the new UTC Propulsion & Aerospace Systems, which includes Pratt & Whitney aircraft engines and UTC Aerospace Systems aerospace products.

UTRC partners with UTC business units and external research organizations to expand the boundaries of science and technology through research and innovation, delivering technology options that meet and anticipate the needs of the marketplace.

Founded in 1929, UTRC is located in East Hartford, Connecticut (U.S.), with an office in Berkeley, California, and research and development centers in Shanghai, China, and Cork, Ireland.

United Technologies Research Centre Ireland, Ltd. (UTRCI) is UTRC’s European research hub, created to fully leverage a global network of innovation. UTRCI works with universities, research institutes, and industry throughout Europe and beyond to further its research and development mission. UTRCI invites qualified individuals to apply for the following position in its Cork office. A competitive compensation and benefits package will be provided to the successful candidates.

Learn more @ [www.utrc.utc.com](http://www.utrc.utc.com)

**Job Responsibilities**

UTRCI seeks candidates with expertise in thermal modeling and analysis for high performance buildings. The successful candidate will conduct research in building HVAC systems modeling, simulation and analysis, and will support technology demonstrations of advanced building energy and control systems. The position requires analytical skills and experience with programming and the development and use of computational modeling tools. An understanding of building physics, including heat transfer and fluid flow is required. The successful candidates will work as part of technology teams in developing new solutions that will provide a competitive advantage for UTC’s business units.

The ideal candidate is a self-starter who works well in an international teaming environment, is extremely well-organized and has excellent interpersonal, leadership and communication skills. Besides technical excellence, an entrepreneurial attitude towards innovation is essential.

**Education**

A doctoral degree in mechanical or systems engineering, or a Masters degree with a minimum of 5 years of industrial or academic experience related to thermodynamical modeling is required. A PhD with post-doctorate industrial or academic experience is preferred.

**Experience/Qualifications**

* Experience in thermodynamical modeling is required. Building HVAC equipment performance modeling is preferred.
* Experience with development /application of modeling and simulation programs to analyze building systems, thermal loads and performance.
* Familiarity with HVAC equipment performance including vapor compression products, air and/or water distribution and building management systems.
* Field experience with implementation or monitoring of building system technologies.
* Experience working with Government agencies and proposal development is desirable.
* Exceptional communication skills, demonstrated commitment to deliver results, adaptability and the ability to work in a teaming environment.
* Ability to execute technology research plans to successfully achieve desired technical outcomes within time and budget constraints.
* Some travel required.
* Experience with MATLAB, Modelica/Dymola, Fluent and/or Ansys is a plus.

**Additional Comments**

This position is based at UTRC’s European hub in Cork, Ireland. To be eligible to apply, candidates must be legally entitled to work and reside in Ireland.

Candidates can apply online at: <http://www.utrc.utc.com/pages/Career/Job_openings.html> by selecting “Ireland” from the “Country” pull-down menu and clicking “Begin Search”

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