



Building Physics Consultant

Houston | MS, PhD, or Certification, and 3+ years experience

The role of the Building Physics Consultant is to provide solutions to building-physics problems across project types and scopes, ranging from campus masterplans to building-component details.

Kirksey Architecture is seeking candidates to join our Building Physics Team. You will be part of a dynamic team that integrates high-performance architecture with building physics. The team applies knowledge of computational fluid dynamics, optics, thermodynamics, structures, and energy systems to assess building performance. The Building Physics Team works closely with architectural, mechanical, electrical, civil, and structural designers, and commissioning agents.

Objective

The role of the Building Physics Consultant is to provide solutions to building-physics problems across project types and scopes, ranging from campus masterplans to building-component details.

Qualifications

An applicant should have one of the following backgrounds/qualifications to apply:

- ✓ Master of Science with peer-reviewed research experience in building science or related field.
- ✓ PhD in building science or related field.
- ✓ Any of the following accreditations: ASHRAE BEMP, ASHRAE BEAP, ASHRAE BCxP, AEE CEM, AEE CEA, AEE CBCP, AEE CMVP.
- ✓ High degree of professional expertise in any of the skills outlined below (demonstrable with more than three years of work experience).

Skills

The ideal candidate is a detail-oriented professional with skills or experiences (demonstrable through projects or course work) in any of the following areas:

- ✓ Application of any of the following tools: Design Builder, Equest, Open Studio, Trane Trace or IES VE.
- ✓ Application of the following standards: ASHRAE 90.1, ASHRAE 62.1, ASHRAE 55.
- ✓ Experience with electric, heating, and cooling load calculations.
- ✓ Experience in representation of any of the following using building-physics: ground-coupled heat pumps, ground-water heat pumps, surface-water heat pumps, displacement ventilation, UFAD, radiant heating, radiant cooling, heat reclamation from air handlers and heat reclamation from condenser systems.
- ✓ Experience with Python, C# or C++.
- ✓ Expertise in any of the following visual scripting interfaces (Rhino plugins, Grasshopper, Dynamo, etc.).
- ✓ Experience in design or operation of standalone, space-based, or centralized lighting controls including line-voltage, low-voltage, digital low-voltage, or wireless controls.
- ✓ Experience with design or operation of Combined Heat and Power, power generating prime movers, or with thermally operated chillers.
- ✓ Experience with operation of Renewable Energy Systems (photovoltaic, solar thermal, wind turbines) or design of these using a tool such as PVsyst, HOMER, RETScreen, eQuest.
- ✓ Experience in energy auditing or calibrated simulation, benchmarking with EPA Portfolio Manager, CAL-ARCH, RETScreen or similar tools, and familiarity with IPMVP, ASHRAE Guideline 14 or ASHRAE Standard 105.
- ✓ Experience in system commissioning of new or existing facilities, TAB reviews and Functional Performance Tests and familiarity with any of the following: ASHRAE Guideline 0, ASHRAE Guideline 1.1 or ACG Commissioning Guideline.
- ✓ Experience in TAB using ammeters, manometers, pitot tubes, tachometers, anemometers, pyrometers & pressure gages.
- ✓ Experience in design or operation of building automation using Programmable Logic Controllers, Distributed Control Systems or Supervisory Control and Data Acquisition systems.

Please send résumés to kapilu@kirksey.com

At this time we do not have available positions for candidates that require current or future visa sponsorship to work in the U.S.