



## **Exciting Opportunity for an Internship in New York City**

Transsolar is an international climate engineering firm, advising architects on energy and climate design for construction projects of all scales all over the world. Our diverse work ranges from assisting small school projects in developing countries to helping design stadia or entire cities. This diverse work shares a common focus on creating exceptional, highly comfortable indoor and outdoor spaces with a positive environmental impact.

We are seeking talented and highly motivated students and graduates for our internship program (around 3-4 months) at our New York office.

Transsolar engineers carry out a broad range of tasks. During your time at Transsolar you will be part of multi-disciplinary design teams and will have the chance to apply and broaden your skills, by working on:

- Climate and energy concepts related to architectural visions, local climate, site and programmatic requirements
- Development, testing and validation of architectural concepts using dynamic thermal simulation, ultimately reducing energy emissions related to buildings
- Engineering analysis and tool development using hand calculation, spreadsheet analysis, and sophisticated engineering analysis tools, such as natural daylight simulation, computational fluid dynamics and/or thermal modelling
- Whole-building energy simulation with TRNSYS and eQuest (including Green Building certification submission)
- Internal coordination with other simulation specialists, synthesis, and communication of overall analysis results
- Graphical representation of climate concepts and complex engineering analysis
- Writing reports and correspondence
- Participation in internal and external meetings, site visits and/or design charrettes

### **The ideal intern will:**

- have an engineering, architecture or applied science education with an interest in the built environment and the wish to work in interdisciplinary - technical and non-technical - teams.
- display an interest or academic focus on heat transfer, thermodynamics and/or fluid mechanics
- be passionate about architecture
- creatively develop and apply non-traditional solutions to novel design and engineering problems, beginning with fundamental physics and using both analytical and computational methods
- have experience with current and advanced architectural technologies (e.g. building envelope), conventional whole-building energy simulation and/or mechanical systems for building climate control
- have an interest in physical testing of engineering systems: experiments, instrumentation and measurements
- exhibit excellent oral and written communication skills

Interested applicants may submit their resume and cover letter via email to [nycjobs@transsolar.com](mailto:nycjobs@transsolar.com)

(over)

## About Transsolar

### *Who we are*

Transsolar is an international climate engineering firm determined to create exceptional, highly comfortable indoor and outdoor spaces with a positive environmental impact. We believe that the very measures taken to create remarkable architecture can simultaneously enhance human experience and minimize resource use. To us, sustainability is not separate from design, but an indispensable component that enhances the experience of the built environment.

### *What we do*

We are vision facilitators, idea generators, and design integrators. Our engineers are not just experts in basic physical principles; their creativity enables the collaboration necessary to develop deeply integrated comfort and energy concepts. Beginning from a project's earliest conception, we work alongside the client, architect, design team, and the most vital participants of all – the occupants. We study the seasonal behavior of sun, wind, heat, light and other energy flows in and around the building, and formulate concepts based on the complex interdependence of the local climate, user needs, architectural design and engineered systems. Our toolbox is ever-growing with simulation models, custom software, tailored engineering analysis, and physical experiments used to develop and validate these ideas.

### *What we offer*

We believe that the built environment is more than the physical building. Our approach explores all factors affecting the occupant experience - including their variation in time and space. Indoors or outdoors, a climate is continually changing. We respond with dynamic solutions that work with this natural variability, not against it. While we are constantly developing new technologies and finding innovative applications, we recognize that technology alone is not the answer. We are pioneers in implementing passive design strategies, and pride ourselves in their application in built, significant projects, both large and small.

Our product is a process. We ask difficult questions, challenge convention and propose new solutions, and thoroughly test ideas. Each project requires both sharing our knowledge and generating new ideas – ultimately creating unique experiences, but always achieving the same goal: High Comfort, Low Impact.

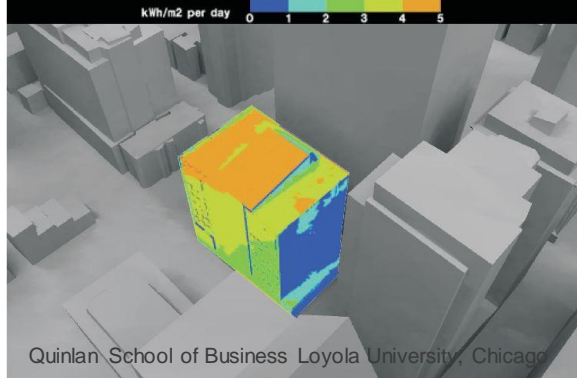
Re-imagined website at [www.transsolar.com](http://www.transsolar.com) launching soon!



Strassbourg Railway Station



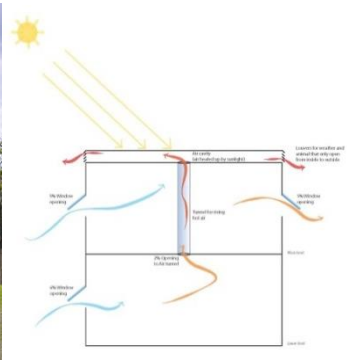
Zaryadye Park Moscow



Quinlan School of Business Loyola University, Chicago



Diogene VITRA Campus



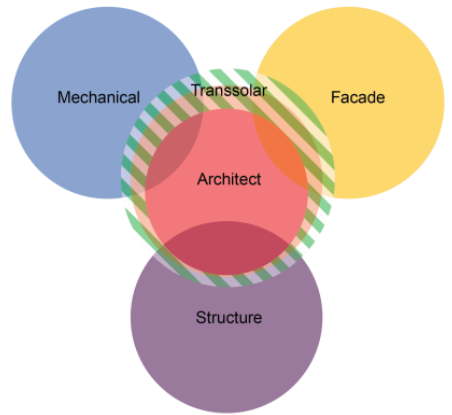
French School, Damascus



Place de la République, Paris



Air to Water Experiment



Manitoba Hydro, Winnipeg



Cloud Venice Biennale 2010