

Instructor for Bachelor-Level Course on Sustainable Urban Engineering

Founded in 1769, Dartmouth College is located on the East Coast of the United States (New Hampshire). It is a member of the Ivy League and consistently ranks among the world's greatest academic institutions. The Dartmouth interdisciplinary Foreign Studies Program [**"Green City: Sustainable Engineering and Full-Immersion German in Berlin,"**](#) run jointly by the Department of German Studies and the Thayer School of Engineering, invites students enrolled at Dartmouth to explore one of the most innovative and most pressing topics of their primary field, "green" and sustainable engineering, while enabling them to satisfy their German language requirement in a full-immersion setting and cultural environment (Berlin) in which sustainability is a lived practice. On the program, students live in Berlin for the duration of a Dartmouth term, usually nine weeks, and take courses for credit in Engineering and German. The courses are taught by the two Dartmouth faculty program directors and two local instructors.

Academic Programs International (API), an educational organization committed to providing challenging and enriching study abroad programs for U.S. students, on behalf of Dartmouth College is seeking to hire **a local instructor for the Course "ENGS 45: Sustainable Cities,"** to be taught in the spring term of 2022 (late March through early June). The course consists of 32 contact hours. The instructor is expected to be available for two additional office hours per week.

About the content of ENGS 45: Sustainable Cities

Today, more than 50% of the world's population lives in cities on less than 2% of the planetary surface. This concentration of infrastructure and activities has created human ecosystems distinct from natural ecosystems, and their future depends not only on their internal sustainability but also on symbiotic interactions with the natural ecosystems on which they ultimately depend. This course addresses the technological aspects of urban sustainability, including energy procurement, energy consumption and green energy, air quality, water supply, use and treatment, building infrastructure, transportation, food, resource conservation, waste disposal, decarbonization, and city planning. In the context of the triple bottom line (an accounting framework that considers financial, social and environmental impacts), the course further addresses, but to a lesser extent, the aspects of sustainable economics and urban social wellbeing. Berlin, the locale for this course, will be used extensively as the example of a growing city that has made significant progress toward sustainability. The course is geared toward engineering majors who have previously taken the course [ENGS 37](#), an introduction to environmental engineering.

Expected enrollment: 10–15 students.

The requirements for the position are:

- PhD in Engineering or closely related field
- At least 3 years of teaching experience at the college or university level
- English level: near-native fluency required; must be comfortable teaching in English
- Experience teaching to U.S. or international students will be considered a strong plus
- Demonstrated commitment to diversity, inclusion, and cultural awareness through actions, interactions, and communications with others

To apply:

Qualified candidates should submit:

- A cover letter and resume
- A detailed sample syllabus for the first two weeks of ENGS 45
- Contact information for two references who can speak to the candidate's teaching experience and effectiveness

Review of applications will begin on March 1, 2021 and continue until the position is filled.

For questions regarding the position, please contact the Dartmouth Program Directors:

Prof. Petra Bonfert-Taylor, Thayer School of Engineering, Petra.Bonfert-Taylor@dartmouth.edu;

Prof. Petra McGillen, Department of German Studies, petra.mcgillen@dartmouth.edu

Please send application materials via email (in a single PDF attachment) to:

Christopher Pepin, christopher.pepin@apiabroad.com

Berlin Resident Director