

The Department of Electronics is seeking qualified contract instructors for the following courses:

Winter Term 2012

SREE 3002 (0.5 credit)

Energy Distribution and Efficient Utilization

Electricity, hydrocarbons and hydrogen. Renewables, biofuels and biogas technologies. Distribution, smart grids, and storage systems. Systems integrating centralized and distributed energy conversion systems. Utilization for mobility, light, heating/cooling, industrial-thermal/mechanical, electrolysis.

Prerequisite: SREE 3001 and ELEC 2501 or ELEC 3605.

Lectures three hours per week, laboratories/problem analysis one hour per week.

SREE 3003 (0.5 credit)

Sustainable Energy Systems Design

Residential, commercial and institutional use of energy, efficiency of end use systems. Solar power; technology generation and economics. Passive solar heating/cooling. Fuel cell thermodynamics, kinetics and solid oxide fuel cells. Wind, ocean, geothermal, biofuels and biogas. Integrated systems combining thermal and mechanical needs. Life-cycle analysis of alternatives.

Prerequisite: SREE 3001 and ELEC 2501 or ELEC 3605.

Lectures three hours per week, laboratories/problem analysis three hours per week.

Candidates must have a degree in a relevant field of engineering, P.Eng. status in Canada, and preferably a graduate degree and/or work experience in the subject area of the course. Candidates must have excellent communication and presentation skills; teaching experience would be an asset.

Applications will be accepted until May 23, 2011. Applications with a covering letter and curriculum vitae including educational background, employment history, and related work experience, should be sent to:

Professor Q.J. Zhang, Chair

Department of Electronics
Room 5170 Mackenzie Engineering Building
Carleton University
1125 Colonel By Drive
Ottawa, ON
K1S 5B6
Telephone (613) 520-5577
Fax (613) 520-5708
Alternatively, properly packaged applications can be emailed to:

gjz@doe.carleton.ca

Carleton University is strongly committed to fostering diversity within its community as a source of excellence, cultural enrichment and social strength. We welcome those who would contribute to the further diversification of our University including but not limited to women, persons with disabilities, visible minorities, Aboriginal peoples, and persons of any sexual orientation or gender identity.