

### Internship in Environmental Sciences and Civil Engineering

<b>Supervisors</b>	Prof. Dr. Luciana Paulo Gomes Prof. Dr. Luis Alcides Schiavo Miranda Prof. Dr. Marcelo Oliveira Caetano
<b>Project</b>	<b>Waste recycling and final disposal</b> <b>Process optimization for waste minimization</b> <a href="http://www.unisinos.br/graduacao/engenharia-ambiental/presencial/sao-leopoldo">http://www.unisinos.br/graduacao/engenharia-ambiental/presencial/sao-leopoldo</a> <a href="http://unisinos.br/global/en/prospective-student/graduate/civil-engineering">http://unisinos.br/global/en/prospective-student/graduate/civil-engineering</a>
<b>Description</b>	Aiming at reducing environmental impact in built areas and industries, Unisinos' Postgraduate Program in Civil Engineering prepares professionals who are able to carry out scientific research and engineering projects that contribute to the development of a sustainable society. The Postgraduate Program in Civil Engineering is recommended by Capes, and counts on several agreements with different universities and organizations in the country. The program focuses on the promotion of advanced scientific-technological research related to the area of Waste Management, focusing on the prevention, waste generation reduction, and final disposal of solid waste.
<b>Tasks</b>	In the Environmental Sanitation Laboratory it is possible analyze all the solid waste and a wastewaters physicochemical and biological parameters. For example, it is possible to determine: pH, turbidity, total coliforms, thermotolerant coliforms, conductivity, phosphorus, total nitrogen, ammoniacal nitrogen, BOD, COD, dissolved oxygen, TOC, total alkalinity, total solids, humidity, Cation exchange capacity. Following are some equipment available in the laboratory :TOC Equipment; Ion chromatography; Gas chromatograph; HPLC; Spectrophotometer; Microscope; Muffles, Oven
<b>Requirements</b>	<ul style="list-style-type: none"> <li>• Students of Environmental Sciences or Civil Engineering</li> <li>• Undergraduate student (at least beginning of the 2nd year)</li> <li>• Basic skills in scientific working (lab and/or field experiments)</li> <li>• Graduate students of Environmental Sciences or Civil Engineering</li> </ul>
<b>Language Skills</b>	English (Portuguese would be nice, but is not necessary)
<b>Duration</b>	4 months
<b>Possible Beginning</b>	February/July
<b>Credits</b>	According to agreement
<b>Payment</b>	None