



## Assignment internship background student Chemical Engineering

### Living Lab Biobased Brazil

The Living Lab Biobased Brazil is a transnational Living Lab in the field of Biobased Economy, created in 2014 by a consortium of Dutch Universities of Applied Sciences in collaboration with several Brazilian universities. The Living Lab helps students with internships and graduation projects in Brazil with the focus on Biobased Economy. We also help students finding accommodation, and offer buddy support, Portuguese classes, a bye-bye meeting and an introduction weekend in Brazil

In return the Living Lab expects you contribute to the Living Lab blog. You have to blog about your personal and internship experiences during your stay in Brazil. We also expect you to participate in the mini symposium at the end of each semester.

These events help you to increase your personal network and is focused on your personal development! For more information please visit <https://www.biobasedbrazil.org/student/brazil/>.

### Company/University information:

The Federal University of São João del-Rei (UFSJ) is one of the best public universities in the state of Minas Gerais, Brazil, with 47 undergraduate and 27 Graduate programs in almost all fields of expertise. Founded in 1986, UFSJ's highly accredited programs are distributed among 6 campuses, attending a number of 15,000 students. Among our strongest areas of expertise, we highlight our Engineering Programs; Physics and Chemistry of Materials; Sustainable Development Technologies; and our Humanities and Arts Programs. In its Institutional Development Plan, UFSJ assumes the international integration of its graduate and undergraduate programs among its strategic objectives, aiming at developing initiatives to promote cooperation with international institutions, programs, groups and researchers.

### Research Project:

Quantum dots solar cells.

### General background:

In this research project we deal with synthesis and characterization of colloidal quantum dots and use them to prepare 3<sup>rd</sup> generation solar cells for energy conversion.

### Goal of internship:

The goal of internship is to allow knowledge of abroad students in this subject and also to propiciate an exchange of experiences in research laboratories from Brazil and The Netherlands from students point of view.

### Activities:

The Project involves:

- Laboratories activities involving synthesis of inorganic semiconductors, characterizations, solar cell preparation and its characterization. It still involves seminars and group meeting discussions.



**Starting date**

February 2019.

The intern will be part of a research team lead by the adviser and supervised by Marco Antonio Schiavon.

**Desirable skills/qualities of the student**

- Good knowledge of the English (and preferably Portuguese) language is required.

**Information of the company:**

Contact person concerning this assignment	: Erik Lammers
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**Interested?**

Please send your CV and motivation letter to Erik Lammers (Coordinator Living Lab Biobased Brazil). For further questions you can contact: +316 101 83 092 or [ekf.lammers@avans.nl](mailto:ekf.lammers@avans.nl).

**PLEASE BE AWARE THAT THE PROCES SUBSCRIBE AT <https://www.biobasedbrazil.org/student/brazil/> APPLIES!**