

**Internship in Chemical Engineering /  
Materials Engineering**

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|---------------------------|---|
| <b>Supervisor</b>         | Prof. Dr. Iara Janaína Fernandes  |
| <b>Project</b>            | <b>Chemistry, development of materials and nanomaterials for flexible electronics.</b>  |
| <b>Description</b>        | This project aims to study, develop and characterize materials and nanomaterials for applications such as flexible electronics and sensors in order to obtain innovative products. There are many research underway at the university and it's Chip with potential application opportunities in the field of flexible electronics. The intention is to improve and strengthen these studies focusing on production and development of these materials and nanomaterials and applications also within the scope of electrical materials and sensors. |
| <b>Tasks</b>              | <ul style="list-style-type: none"> <li>• Training in manufacturing processes and characterization of graphene, nanoparticles and other materials;</li> <li>• Research, formulation and characterization of pastes and conductive inks using nanoparticles and graphene;</li> <li>• Support in the activities and organization of the Flexible Electronics laboratory;</li> <li>• Elaboration of reports.</li> </ul>   |
| <b>Requirements</b>       | Student of chemical engineering or materials engineering courses  |
| <b>Language Skills</b>    | English (Portuguese would be nice, but is not necessary).   |
| <b>Duration</b>           | 4-6 months  |
| <b>Possible Beginning</b> | February/March or July/August.  |
| <b>Credits</b>            | According to agreement  |
| <b>Payment</b>            | None  |