



Yes, your ideas and our technologies can contribute to economic, social and environmental progress. **Alstom** is a global leader in the world of power generation, power transmission and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies. Alstom builds the fastest train and the highest capacity automated metro in the world, provides turnkey integrated power plant solutions and associated services for a wide variety of energy sources, including hydro, nuclear, gas, coal and wind, and it offers a wide range of solutions for power transmission, with a focus on smart grids. The Group employs 96,500 people in more than 70 countries, and had sales of over € 23 billion in 2009/10.

## Flue Gas Treatment & Other Power Industry Environmental Issues

**Your tasks:** involved in research in the area of chemical processes especially in the field of flue gas treatment and other environmental issues related to power sector, such as CO<sub>2</sub> Capture and Utilisation (i.e. conversion to chemicals, fuels, and stable carbonated solids) you are expected to work as a member of multi-disciplinary R&DD teams with one or more tasks:

- Keep up to date with the technical developments in the field through technology scouting and watch platforms and feed the knowledge into process and product development at Alstom
- Generate ideas and assess them through the research for either developing novel technologies for the future or advancing and improving the current technologies while receiving inspiration from the nature (i.e. bioprocesses, biocatalyst, biomimicry, natural CO<sub>2</sub> cycle, and natural carbonate mineralisation)
- Find alternatives to conventional technologies especially in the field of CO<sub>2</sub> Capture and Storage
- Develop ways and assess their feasibility to ensure sustainability and efficient use and management of the natural resources necessary for the operation of power plants
- Create interfaces and interactions with relevant businesses at Alstom and support their activities
- Produce high quality reports and presentations to disseminate

**Your profile:** Registered student (prerequisite) with intermediate master diploma or bachelor, Highly motivated and proactive attitude, Ability to work independently or as a part of team, Strong communicative skills, Excellent language skills in English essential and German language ability as advantage, Organised structured working style, Persistence in performing tasks, Research and Project focus, MS office competence, Good command of engineering software as plus point

<b>Location</b>	: Birr, Switzerland
<b>Duration</b>	: Minimum three months
<b>Start Date</b>	: Negotiable (Year 2011-2012)
<b>Payment</b>	: According to standard rate for student trainees in Switzerland
<b>Contact</b>	: Dr. Turgay Pekdemir (turgay.pekdemir@power.alstom.com)

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