



DCS Computing is a high-tech company based in Linz and Vienna / Austria. We develop cutting-edge CAE (Computer Aided Engineering) software to model and predict processing and flow of particles such as sand, sugar, crops, coal, pharmaceutical powder, chemicals and many more. Particle processes such as production, transport & storage represent a huge share of the world's energy consumption and greenhouse gas emissions.

We distribute our software products and services on the global market. Some of the world's largest companies from a variety of industries as well as leading research institutes and universities are using our software. We aid our customers in sustainable growth, increasing throughput and efficiency while energy and carbon footprints are decreased. We also closely collaborate with leading academics worldwide.

## We are looking for an Early Stage Researcher / PhD student (starting 10/2019)

You will be given the opportunity to work with DCS and a network of international partners for 3 years towards a PhD degree in the context of the EC-funded Horizon 2020 "Marie Curie" MSCA Innovative Training Network (ITN) "CALIPER" ([caliper-itn.eu](http://caliper-itn.eu)). Location is Linz /Austria.

### You bring:

- *Physics*: you are holding a master's degree in fluid mechanics, process engineering, particle technology or similar and have interest in modelling physics and flow processes in a Discrete Element Method (DEM) context and ideally also in a Computational Fluid Dynamics (CFD) context
- *Software development*: you have skills or interest in using C++, git, and MPI
- *Customer focus/communication*: you communicate lean and efficiently and work customer-oriented
- *Focus*: you have a goal-oriented and well-organized personality
- *Enthusiasm*: you bring a broad range of interests, and the capability to learn rapidly

### We offer:

- *Purpose*: you will develop cutting-edge DEM and CFD-DEM simulation models for high temperature processes. Therefore, you are laying the ground for process optimization, reduction of energy consumption and emissions.
- *Team*: you will join a small and flexible, young and motivated team at DCS as well as being embedded into in an international project team with high-level academics and industrialists, enrolled at Graz University of Technology for PhD and enjoy a number of international exchange visits (secondments) during the project.
- *Impact and internationality*: you will work with Blue Chip companies from all around the globe. Market leaders in all major industries (chemical, pharma, process, minerals & mining, plastics, agricultural machinery and many others) are among our customers
- *Salary*: you will receive fixed salary of roughly € 2600 gross, depending on your family status (14 times a year).

For eligibility and general information on international mobility, please see the **remarks on page 2**.

Please send your **1 page CV** and **1 page motivation letter** – *all other formats will be discarded* - to: Dr. Christoph Kloss, Dr. Christoph Goniva, [recruiting@dcs-computing.com](mailto:recruiting@dcs-computing.com). We look forward to hearing from you!



### Eligibility

All researchers recruited in an ITN must be Early-Stage Researchers (ESRs) and undertake transnational mobility (see below).

Researchers can be of any nationality. They are required to undertake physical, transnational mobility (i.e. move from one country to another) when taking up their appointment. Nationality is therefore not a criterion. Rather the location of the researcher's residence or main activity during the 3 years prior to their recruitment is determining. Example: Austrian nationals can be eligible for recruitment if they have resided or carried out their main activity outside of Austria for more than 24 months in the 3 years immediately prior to their recruitment.

### Secondments

In ITN, each recruited researcher can be seconded to other beneficiaries and/or to partner organisations for a duration of up to 30% of his/her recruitment period. Secondments of the researcher to other beneficiaries and partner organisations are encouraged, but should be relevant, feasible, and beneficial for the researchers and in line with the project objectives. Normal practice during secondments is for the recruited researchers to keep their contract with the sending institution, which also pays their travel and subsistence expenses (e.g. accommodation, visa, residency card) from the institutional unit costs. During their secondment, researchers receive supervision and training at the premises of the receiving beneficiary or partner organisation. Secondments should be differentiated from short visits, i.e. of a few days. Secondments in ITN of six months or less which require mobility from the place of residence must be financed using the Research, Training and Networking costs in order to prevent an unreasonable financial burden for the early-stage researchers. This includes the travel and accommodation costs.