



1 February 2021

The **European Severe Storms Laboratory** (ESSL, <https://essl.org>) is looking for a

Researcher (75 - 100 %)

for two years initially

based in Germany, to support its work in the research project CHECC on severe thunderstorms and climate change (see below) at 75% of a full position.

Optionally, other tasks involving programming work in support of the ESSL Testbeds may be taken over. In this case, the researcher can be hired full-time. We are looking for someone who can start in the coming months, or at the latest by September 2021.

CHECC

We are looking for support to the project "Convective Hazard Evolution under Climate Change" (CHECC, see: <https://www.essl.org/cms/checc/>), part of the German research programme ClimXtreme (see: <https://www.climxtreme.net/>) which includes several research groups at various universities. The primary goal of CHECC is to find out if effects of climate change on the occurrence of (severe) thunderstorms in Europe can be detected in reanalyses and climate models. This is done by developing and applying statistical methods with a strong basis in physics. Tasks of the researcher will include:

- Evaluating the role of changes in synoptic scale weather patterns on severe thunderstorm probability
- Evaluating changes in the variability of weather conditions supportive of severe thunderstorms
- Reporting on the research in peer-reviewed scientific journals

ESSL Testbed

The ESSL Testbed is a collection of one-week events, which (in non-corona times) takes place in person at ESSL premises in Wiener Neustadt, Austria. There, forecasters and developers work together to evaluate novel products developed to support the forecasting and warning process. They do this by using these products based on satellite, radar, and numerical weather prediction data to make forecasts in a quasi-operational setting. ESSL seeks someone to help develop and maintain the ESSL Weather Data Displayer, which is an interactive web page for displaying meteorological data.

Profile

The employee needs to be a resident in or moving to Germany as this is a prerequisite by the funder of the CHECC project. The current ESSL team is spread across many European countries including Germany, Austria, the Netherlands, Romania, and Croatia and often works remotely.

The employee do their work through teleworking from Germany. In collaboration with the Institute of Meteorology of the Freie Universität Berlin, we offer a workplace at the Institute, which is the location of the other current ESSL CHECC researcher. It is expected that the new employee will coordinate with him and with other ESSL colleagues in weekly video meetings and will meet in person approximately every two to three months, in Berlin, Wiener Neustadt, or another agreed location. In case work in support of the ESSL Testbed is done, it is expected that the employee will take part in person in the Testbed in Wiener Neustadt for at least one week in June and/or July.

ESSL offers this position for a two-year period, limited by the duration of the funding for the CHECC project. Provided that subsequent funding is found, the employment may be continued beyond the two-year period, and could be made permanent. As a researcher at ESSL, you will be part of a small international team of ESSL which has become an important centre of competence in Europe with regard to severe convection. You will be able to contribute to the various other activities carried out and take part in ESSL courses taught by experts in the field.

We are looking for a person who has a Master or Ph.D. degree or equivalent in meteorology, physics, or a related discipline, who is enthusiastic about severe weather research. A well-organized, reliable, and communicative character is expected. For graduates of a Master's degree, the work done for the CHECC project can be part of a Ph.D. degree (dr. rer. nat.) pursued at the Freie Universität Berlin or another university.

We require:

- Good command of the English language in speaking and writing
- An M.Sc. or Ph.D. degree in physics, meteorology, geophysics, mathematics or similar
- An interest in (severe) convective storms
- Experience with programming using languages such as Python, R, or similar

Beneficial, but not essential, are:

- Having published in peer-reviewed literature
- Having done prior research work related to atmospheric circulation patterns
- Knowledge of the German language or willingness to learn German
- Some knowledge of web-programming (HTML, PHP, JavaScript)
- An interest in weather forecasting

The salary level is oriented at the German TvöD salary table, level E 13. In case the employee with carry out the research work (at 75%), an indicative net salary is around € 2000/month, depending on the applicable tax class according to German law and other factors. In case the employee will also contribute to the Testbed and work full time (100%), an indicative net salary is € 2500/month.

With reference to ESSL's diversity policy, we especially encourage women and minorities to apply. We are looking forward to receiving your application including a motivation letter and a curriculum vitae until February 28th 2021 by e-mail to Pieter Groenemeijer:

pieter.groenemeijer@essl.org.