

Dienerstrasse 15
Zürich 8004
Switzerland

October 18, 2016

Stephanie Frequente
CSCS Human Resources
via Trevano 131
6900 Lugano
Switzerland

Dear Ms. Frequente,

I am writing to apply for the position of Scientific Software Developer.

I believe that I am a strong candidate as I have broad experience in computational mathematics and computational science; I have a PhD in applied/computational mathematics, have worked extensively with both library and application codes as part of my current job as a postdoc on a PASC project, am a native English speaker, and have experience using CSCS's systems.

I am very interested in the collaborative aspect of this position, and would hope to be paired with teams working on topics I have touched on before, such as geophysics, communication-hiding algorithms, or numerical methods. In particular, I would be excited to work with a team leveraging the PETSc library, to which I am eager to contribute as a developer.

To me, "Modern C++" means a set of tools which are often fun, occasionally elegant, and usually overkill. Especially in scientific computing, much of what we need to do can (and is) accomplished in C or Fortran, so my personal preference with C++ is to favor less-elaborate designs which are more easily comprehended, debugged, profiled, and transferred to new developers. Extremely clever inheritance trees, template metaprogramming, etc., should not be introduced without very clear justification.

Sincerely,

A handwritten signature in black ink, consisting of a series of fluid, connected loops and strokes, representing the name Patrick Sanan.

Patrick Sanan