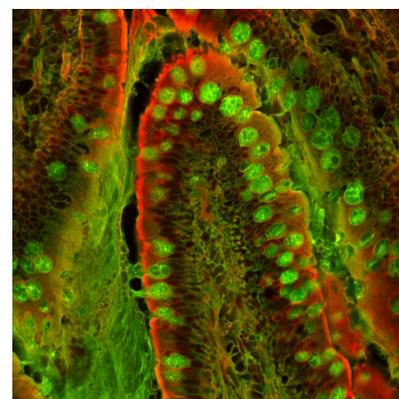




DEEP TISSUE IMAGING WITH CUMULATIVE COHERENT- NONLINEAR SCATTERING

2.5 YEAR POSTDOC POSITION AT THE SCHOOL OF BIOMEDICAL ENGINEERING, COLORADO STATE UNIVERSITY

We are seeking two postdoctoral applicants to work on a CZI-funded project for ultra deep nonlinear imaging inside of biological tissues. This work builds on a recently demonstrated second harmonic generation (SHG) holographic tomography (<https://doi.org/10.1038/s41566-020-0638-5>) that will be combined with coherent reflection matrices to enable SHG imaging at unprecedented depths. Postdocs will also be actively involved in the CZI deep tissue imaging team. Salary >\$60,000 USD/year.



APPLICANT REQUIREMENTS

Successful candidates must have a Ph.D. in Optics, Physics, Engineering, or related field. Candidates with or motivated to learn the following skills are strongly encouraged to apply:

- Experience or a strong interest in light propagation in highly scattering media, with a particular focus on transmission and reflection matrices
- Experience or a strong interest in construction of multiphoton microscopes, nonlinear optics, and ultrafast lasers
- Experience or a strong interest in imaging deep inside of biological tissues

ABOUT CSU

CSU is a leading research institution. CSU is located in the city of Fort Collins, near the Rocky Mountains. Fort Collins was named America's "Best Place to Live" in part due to the fact that we enjoy an average of 300 days of sunshine per year, moderate winters, and a mild climate year-round.

<https://livability.com/best-places/top-100-best-places-to-live/2020/co/fort-collins>

APPLICATION PROCESS

Review of applications starts immediately and the positions will remain open until successful candidates have been found. To apply, interested applicants should forward their CV including a publication list, contact details of three reference writers and a one-page description of their experience and research interests related to this position. For more information and for applying, please contact Randy Bartels directly (randy.bartels@colostate.edu).