

**Postdoctoral position in condensed-matter theory**  
Budapest University of Technology and Economics, Hungary

We invite applications for one – possibly two – postdoctoral position openings in condensed-matter theory at the Institute of Physics, Budapest University of Technology and Economics (BME) (<http://physics.bme.hu>). Research activities of the successful applicant will include at least one of the following directions:

- (1) numerical (tensor network, NRG, DMRG, DMFT) computations for strongly correlated quantum systems – supervised by Gergely Zaránd and Örs Legeza,
- (2) quantum computing with topological superconductors and/or topological error-correction schemes – supervised by András Pályi,
- (3) non-equilibrium physics and exotic quantum states in correlated cold-atomic and mesoscopic systems – supervised by Gergely Zaránd,
- (4) or dynamics in statistical quantum field theory – supervised by Gábor Takács.

Applicants are expected to hold a PhD, and preferably have proven skills in analytical and numerical methods of modern condensed matter physics or field theory.

Further details:

- Tentative starting date: September 1, 2018.
- Duration: 1+1 years or 1+2 years.

To apply, please submit the following documents per email to Gergely Zaránd, with 'HunQuTech postdoc application' in the subject line:

- Curriculum vitae
- List of publications
- Two references (senior researchers we can contact to tell us about their experience working with you)
- Short statement of your research interests and how they relate to this project.

For more information, please contact András Pályi ([palyi@mail.bme.hu](mailto:palyi@mail.bme.hu)) or Gergely Zaránd ([zarand@eik.bme.hu](mailto:zarand@eik.bme.hu)).

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Gergely Zaránd  
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