

CogSci Apps Corp. seeks Expressions of Interest (EOI) from creative, interdisciplinary sleep research consultants with expertise in cognitive and affective sciences. Dependent on funding, this anticipatory expression may require you to

- design and vet content of new mySleepButton® packs to facilitate sleep onset in users of various populations (e.g., insomnia/no insomnia diagnosis; significant pain/no significant pain; perturbant emotion/no perturbant emotion; pediatric/adult; ADHD/no ADHD);
- design survey protocols and questions to assess and improve the effectiveness of new mySleepButton packs for specified populations;
- analyse very large databases (“big data”) of app usage to provide further insight into the human sleep-onset control system (SOCS), and into SOCS self-regulation;
- inform the “lean startup”, “build-measure learn” development cycles of mySleepButton (cf. Eric Ries’ Lean Startup book);
- specify and/or implement computer simulations of the Somnolent Information-Processing theory;
- contribute to the design and implementation of empirical scientific research projects that test the Somnolent Information-Processing theory with CogSci Apps software.

Requirements:

R&D on the Somnolent Information-Processing theory

(<http://www.sfu.ca/~lpb/tr/Beaudoin-2014-the-cognitive-shuffle-super-somnolent-mentation.pdf> and <http://summit.sfu.ca/item/17139>) calls for an interdisciplinary, integrative, ‘whole mind’ information processing approach to psychology. This requires

- Minimum of a Master’s degree in Psychology or Cognitive Science, with research experience and extensive course work in the cognitive sciences (cognitive psychology, AI, linguistics, philosophy of mind, neuroscience), biological psychology, computer simulation and sleep/circadian cycles, affect/conation (emotion, motivation, moods and attitudes), executive functions, and empirical research methods.
- Experience in designing and testing software user interfaces (UX).
- Proficiency with at least two computer programming languages (including Java or Python).
- Experience with Big-Data analysis.
- Deep understanding of the perturbation theory of emotion (<http://summit.sfu.ca/item/16776>), CogAff theory (<http://www.cs.bham.ac.uk/research/projects/cogaff/>), and an ability to deeply

understand the Somnolent Information-Processing theory , which is broad and interdisciplinary.

- Proficiency with macOS® and iOS® (all R&D will be done with Apple® technology), backed by at least 5 years of usage of them as your main desktop and mobile platforms.
- Languages. Perfectly English / French bilingual (excellent written and oral comprehension and production). Proficiency in Japanese or Polish are significant assets.
- Passionate desire to develop and test integrative, interdisciplinary science-based solutions that improve users' overall well-being and cognitive productivity.

CogSci Apps® are beautiful, psychologically potent user-friendly apps that improve users' well-being and productivity. mySleepButton is designed to help users fall asleep (or back to sleep). We develop theory, design applications and help researchers test them. We have collaborations with research teams—in Canada, the US and Europe—on a growing number of projects related to sleep onset and insomnia involving the Somnolent Information-Processing theory and SomnoTest, the research version of mySleepButton.

Interested consultants please send their resume and CV in PDF (or a link to their web page containing same) to [hr-csa@cogsciapps.com](mailto:hr-csa@cogsciapps.com).

For more information please consult the links supplied above, as well as <http://CogSciApps.com> and <https://mysleepbutton.com/support/the-cognitive-science/>