



# Call for Submissions

## Wisconsin MRSEC Excellence in Open Science Prize

**Deadline for submission: February 1, 2021**

The Wisconsin Materials Research Science and Engineering Center (MRSEC) is a leader in promoting best practices in open science. The MRSEC Excellence in Open Science Prize promotes data sharing and open science principles.

### Description

This prize recognizes a researcher or research team that has demonstrated an exceptional effort and/or success in the development and/or dissemination of impactful data for the scientific community.

With the transformative developments in data access and analytics, development and dissemination of impactful data sets is an increasingly important part of modern materials science. This prize seeks to encourage researchers to develop innovative strategies to develop and disseminate their data. Examples might include dissemination of an advanced source code in a particularly usable form, development of a critical database in a particularly usable form that the broader research community can leverage, development of new data standards, development of innovative data collection and analysis strategies, or dissemination of data in an innovative application.

### Criteria

Applications will be judged on the creativity and effort shown in the data development and/or dissemination and the realized or expected broader impact of the data. Applications will be judged by members of the MRSEC Executive Committee, in consultation with additional experts for guidance, as required.

### Award

The winning applicant or applicant team will receive a \$500 prize. For applicant teams, the prize will be divided among the team members.

### Eligibility

**Personnel:** Any researcher or research team that is part of, or affiliated with, the Wisconsin MRSEC. Data directly associated with a currently funded MRSEC project is particularly encouraged.

**Dates:** The bulk of activities on development and/or dissemination that is the focus on the award application must have taken place between September 1, 2017 and January 31, 2021.

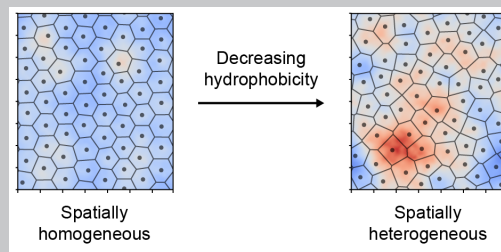
**Data:** The data can be of any kind, including numerical values, images, source codes, text, etc.

## 2020 MRSEC Open Science Prize Awarded to Dallin for Molecular Dynamics Simulations Data Sharing

Dallin, a graduate student at the University of Wisconsin–Madison in Chemical and Biological Engineering, was the awardee of the MRSEC Open Science prize in 2020.

Dallin's work uses simulations of molecular motion, called molecular dynamics, to study properties of molecules interacting with water. His work helps elucidate the fundamental mechanisms that control critical chemical and biological systems. Applications can range from the behavior of colloids (e.g. human blood) to the improper folding of proteins (e.g., those controlling Alzheimer's disease).

Two papers were published in highly respected journals using these simulations. Additionally, Dallin shared all his detailed simulation data and tools on a free, web-accessible platform called Zenodo. The resources were also given a digital object identifier, or DOI, which provides stable, long-term access for anyone who is online.



### Application

The application must include a 2-page document.

#### The first page should include:

1. Title
2. Date
3. Applicant name and contact information
4. For an applicant team, this page should identify a lead PI and Co-PIs, and contact information should be included for the lead PI

#### The second page should include:

1. A description of the data, its dissemination strategy, peer-reviewed publications associated with it, and its present and/or expected impact
2. A discussion of how the data development and/or dissemination are exceptional
3. A description of how to access the data

#### Submit application:

The two pages should be submitted as a PDF to Kerri Phillips ([kphillips22@wisc.edu](mailto:kphillips22@wisc.edu)) by February 1, 2021. Award recipient(s) will be decided by March 1, 2021.

### More Information

Please direct questions about suitability of work product for this competition to Victor Zavala ([victor.zavala@wisc.edu](mailto:victor.zavala@wisc.edu)) and administrative questions to Kerri Phillips ([kphillips22@wisc.edu](mailto:kphillips22@wisc.edu)).

**Wisconsin MRSEC**

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