# CONNECTICUT ACADEMY OF SCIENCE & ENGINEERING
## NEW MEMBERS - CRITERIA AND GUIDANCE FOR NOMINATORS

The Academy's Council, Broadening Participation Committee, and the Membership Committee seek the support of the membership in considering new nominees for the 2027 Call for Nominations. This document is designed to provide guidance as members begin to consider nominees.

Currently 74% of the Academy's members are from UConn and Yale, with the remaining 26% from other universities and colleges, industries, and from the public service sector. To broaden the Academy's reach and ability to advise the people and the state on issues of science, technology, engineering, mathematics, and medicine (STEMM), the Academy's leadership suggests that it is important that Academy membership represents a broader spectrum of technical expertise and backgrounds, and that all elected members recognize that along with the honor comes a commitment to serve on behalf of the state.

***Consider nominating an individual who meets the criteria for membership outside of your organization. Equally important, consider eligible nominees underrepresented at the Academy.***

"As STEMM is the foundation for many of the growing sectors in our state, the Academy's charter to advise the people and state on STEMM-related issues continues to expand," said Amy Howell, CASE President. "In the 2027 Call for Nominations cycle, we are putting out a special request for members to consider nominees that represent untapped areas of expertise from industry, public service, and academia that are not currently represented or underrepresented in our membership."

Gualberto Ruaño, chair of the Broadening Participation Committee, asserted, "As part of our mission of service to the State, it is imperative that CASE's leadership in STEMM reflects the highest level of achievement across a broad range of disciplines and sectors. Your support and engagement in the nomination process will enable our organization to attain this goal."

**Specific things to consider:**

**MEMBERSHIP REQUIREMENTS (Per CASE Bylaws)**

The Connecticut Academy of Science and Engineering values diverse and inclusive participation in its membership and activities. As per the bylaws (Article II, Section 2):

> Scientists and engineers who work or live in Connecticut may be considered for membership based on fulfillment of either or both of the following criteria:
>
> (a) scientific distinction achieved through significant original contributions in theory or applications;
> (b) unusual accomplishments in the pioneering of new and developing fields of applied science and technology.
>
> A candidate for membership shall be recognized by associates for professional integrity, as well as for accomplishments in science or engineering. Notable contributions to science or engineering education, particularly effective leadership of organizations that have conducted pioneering or complex programs, and signal achievements in the domain of the social relations of science and technology are to be treated as factors supplementing the primary criteria.

When preparing a nomination, make sure that the narrative and letters of support address the above criteria and the significance of the nominee's position.

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CASE leadership provides the following guidance to assist in preparing a nomination. In the nomination packet and in your direction to those who will write letters of support, the following should be addressed in the narrative and letters, when applicable for the nominee:

- Ability to influence policy in the state in the areas of science, technology, engineering, mathematics, and medicine (STEMM).
- Unique knowledge and scientific experience that will be valuable in providing guidance on science and technology issues to the people and the state of Connecticut, and for the purpose of promoting the application of science and technology to human welfare and economic well-being.

**Application of Membership Criteria for Nominees from Industry and Public Service**

Additionally, the following should be addressed in the nomination packet as and where appropriate (particularly from industry and public service):

- Significance of job title, including roles and responsibilities; nominators for an industrial nominee should describe major projects the nominee has led with appropriate emphasis on their technical contributions. Industry and public sector job titles may not be understood by someone outside of the sector, and the nominator should indicate the significance of the nominee's position.
- Describe the nominee's leadership in developing new STEMM-related products and methods of production and manufacture, including technology transfer.
- Major Deliverables (examples include publications, patents, etc.) – Evidence of multiple publications, patents, white papers, regulatory programs with significant impact. Provide brief statements in lay terms as to the significance of a nominee's major publications or patents. Patents held by the nominee's company may also be cited.
- Public Service – Provide a nominee's involvement in public service with evidence of activities related to STEMM that create jobs and economic growth, address community issues, or impact government. While being elected as a member is an honor, CASE is a service-oriented organization, and members are asked to provide pro bono service when requested. Describe the service of the nominee to their community, state, nation, and nonprofit organizations.
- Activities related to creating jobs and economic growth in the STEMM fields.
- Significance of professional awards and recognition. Industry scientists may have been recognized as part of group or team awards; their contribution to the awarded activity should be described. Provide brief statements as to the significance of a nominee's contribution to each award or honor.
- Significance of professional society membership and activity. Provide a nominee's involvement in organizations that are prominent in the field of expertise, including demonstrated involvement in technical activities.

CASE leadership provides this guidance so that the significant stature and accomplishments of nominated scientists and engineers from industry and public service can be appropriately recognized by the CASE Membership Committee and by voting for CASE members.

**Important Requirements of the Application Process**

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There are several points for member nominators to follow to fulfill the requirements of the nomination process.

As a CASE Member, please note that you may serve as a Nominator for only one nomination, and as a Reference (Member Reference or External Reference) for only one other nomination. A CASE Member cannot serve as both the Nominator and Reference on the same nomination. The following pertains to the references to be provided in support:

- **Member Reference** (**required**; letter of support **required**): An Academy Member must be named as the member reference. A letter of support from the member reference is required. The member reference should clearly identify which or both of the following criteria for Academy membership make this individual qualified and briefly explain why: 1) Scientific distinction achieved through significant original contributions in theory or applications, *and/or* 2) Unusual accomplishments in the pioneering of new and developing fields of applied science and technology.
- **External References** (optional but preferred): Up to three external references may be provided. The external reference is optional, but at least one is strongly preferred. If included, a letter of support is **required** from each reference. The individual must be external to the nominee's organization. The external reference may be, but does not need to be, an Academy member. While an external reference is optional, its inclusion may positively enhance the strength of the nomination package during the assessment by the Membership Committee.
- In cases where there is limited public record of a nominee's deliverables (such as limited publications and patents due to nature of their work), additional external references are encouraged to help the Membership Committee understand the importance of the nominee's contribution. An example of this would be a letter of support from a customer for a contribution that cannot be disclosed publicly.
- In all cases, the reference should clearly identify which or both of the following criteria for Academy membership make this individual qualified and briefly explain why: (a) scientific distinction achieved through significant original contributions in theory or applications, or (b) unusual accomplishments in the pioneering of new and developing fields of applied science and technology.

### Resume Requirement

We require a resume limited to ***three pages*** to be submitted as part of the nomination package. This resume should be a concise summary of the nominee's education and experience, highlighting accomplishments in those areas. This will allow the Membership Committee to focus on the key areas of a nominee's career. An optional CV can be attached to the nomination package. The CV will not be shared with the Membership Committee; the CV will be used for CASE reference if the nominee is elected.

### Nomination Period

The nomination period closes on Thursday, November 12, 2026, at 4:00 PM EST. The deadline is ***strictly enforced*** for the fairness of all nominations. Members are encouraged to budget sufficient time before the deadline for nominations, as gathering the information needed may be time-consuming, and you may have questions as you proceed.

The Academy values diverse and inclusive participation in its membership. Per the Bylaws, the membership shall include a reasonable representation among the broad categories of (1) the physical and mathematical sciences, (2) the biological sciences, (3) the social and behavioral

sciences, and (4) engineering, and among those engaged in academic, governmental, and industrial or other private activities, regardless of sex or of racial or cultural origin.

Deliberations of the Membership Committee are **confidential**.

See the following current list of non-profits and public services, industries, and institutions of higher education with an Academy member. This list may have inaccuracies due to recent changes in organization or member affiliation. If you have a question about affiliations within the current membership, please contact Kerry Shea, Assistant Director, at kshea@ctcase.org.

If you need support during the nomination process, CASE staff can help. Contact Kerry Shea, Assistant Director, at kshea@ctcase.org with your issue.

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**SECTORS**

***NON-PROFITS & PUBLIC SERVICE***

- Children's Museum Inc.
- Connecticut Agricultural Experiment Station
- Connecticut Center for Advanced Technology
- Rothberg Institute for Childhood Diseases
- The Jackson Laboratory
- US Coast Guard Academy
- Yale-New Haven Hospital
- Independent Data Consortium for Aviation

***INDUSTRIES***

- Abiologics
- Alphina Therapeutics
- AMBRI, Inc.
- Applied Physical Sci., General Dynamics
- ARKA Group, LC
- Arvinas
- CHA Consulting, Inc.
- Clean Feet Investors
- Coherent
- Collins Aerospace
- Electric Boat, General Dynamics
- Elemental Cognition
- Eversource
- HyAxiom (formerly Doosan Fuel)
- IMCORP
- IBM and IBM Watson Research Center
- Lexeo Therapeutics
- Linde
- Lumentum
- Monad Labs
- Pfizer
- Pitney Bowes
- Pratt & Whitney
- Quantum Circuits
- R&D Dynamics Corporation
- Raytheon Technologies
- RTX Technology Research Center
- Sikorsky, a Lockheed Martin Co.
- Sonics & Materials
- TRC Companies
- Zygo Corporation

***INSTITUTIONS OF HIGHER EDUCATION***

- Central Connecticut State University
- Connecticut College
- Fairfield University
- Quinnipiac University
- Southern Connecticut State University
- Trinity College
- University of Connecticut
- University of Hartford
- University of New Haven
- Wesleyan University
- Yale University