

**CHARTER FOR THE INTEREST GROUP ON  
Statistics for Heavy Equipment Industries  
OF THE AMERICAN STATISTICAL ASSOCIATION**

Interest Group charter created in 2025

**ARTICLE I. NAME**

The name of this organization is the Interest Group on Statistics for Heavy Equipment Industries (hereafter called the Interest Group) of the American Statistical Association (hereafter called the Association).

**ARTICLE II. SCOPE**

The objectives of the Interest Group include, but are not limited to:

1. Promote the application of statistical thinking and methodologies in large-scale, capital-intensive industries such as shipbuilding, semiconductor manufacturing, aerospace, and energy systems.
2. Advance research on multistage, hierarchical, and spatial-temporal process modeling relevant to heavy and precision manufacturing.
3. Support innovation in reliability, safety, and lifecycle performance, including degradation modeling, predictive maintenance, and risk management for long-lived equipment and complex systems.
4. Encourage the integration of statistical methods with digital transformation initiatives, such as smart factories, smart yards, IoT-enabled monitoring, digital twins, and AI-assisted decision systems.
5. Foster collaboration and knowledge exchange among statisticians, engineers, and industry practitioners to address domain-specific challenges in heavy equipment and advanced manufacturing sectors.

In pursuing these objectives, the Interest Group will work closely with other Sections and Interest Groups of the Association wherever appropriate.

**ARTICLE III. MEMBERSHIP**

Membership in the Interest Group is open to anyone interested in Statistics for Heavy Equipment Industries. There are no dues, but the Interest Group accepts contributions.

#### **ARTICLE IV. MEETINGS**

The annual business meeting of the Interest Group shall be held in connection with the annual Joint Statistical Meetings and shall be announced in advance, preferably in the program for that meeting. Business may also be conducted with the Interest Group members by mail and/or email. Additional meetings of the Interest Group may be held at other times and places, in conjunction with events sponsored by partner organizations or by other ASA interest groups, sections, and chapters, and also on virtual/internet-based platforms.

#### **ARTICLE V. OFFICERS**

The officers of this Interest Group shall consist of the Chair, Chair-elect, Program Chair, Program Chair-elect, Education/Publications Officer, and the Secretary-Treasurer. The Chair must be a full member of ASA. Terms of all the officers shall be two years except for the Secretary which shall be three years. The Chair and co-Chairs are responsible for the Interest Group Annual Business meeting at JSM.

The Program Chair is responsible for the Interest Group program at the JSM meeting. The Secretary-Treasurer is responsible for taking minutes at the Interest Group Annual Business meeting, maintaining a roster of the Interest Group's members, and accounting for the income and expenditures of the Interest Group.

No officer shall be eligible for immediate re-election to the same office except the Secretary-Treasurer. The Chair-elect and the Program Chair-elect shall automatically succeed the Chair and Program Chair, respectively, at the annual change of officers, which shall occur on January 1.

#### **ARTICLE VI. VACANCIES IN OFFICE**

Except for the Chair, vacancies for the officers shall be appointed by the Chair. An individual may hold no more than one position within the interest group at a time. If the office of Chair becomes vacant, the Chair-elect shall become the Chair.

#### **ARTICLE VII. NOMINATION AND ELECTION**

The Interest Group's immediate past Chair shall serve as Chair of the Nominating Committee. The Chair will also nominate one person to serve on the Nominating Committee.

Each election year the Nominating Committee shall submit no later than September 1st to the Secretary and the Chair of Interest Group nominations for each position to be filled. In addition, any Interest Group member nominated by petition of 5 or more members of Interest Group shall also appear on the annual ballot, provided that the petition is presented to the Secretary and Chair of the Interest Group by

September 1st announcing the names of the candidates submitted by the Nominating Committee. Balloting shall be carried out by the Past Chair for electing Interest Group officers and completed by November 1st. Ballots shall be sent to all those who express an interest in the Interest Group; this includes all who so indicate as well as those attending business meetings or participating in JSM sessions.

#### **ARTICLE VIII. AMENDMENTS**

Amendments to this charter may be proposed by the three officers of the Interest Group or by petition signed by at least 15 members of the Interest Group and submitted to the Interest Group officers. The proposed amendment shall be submitted to the Interest Group members for vote at the time of the annual election of officers. If approved by a majority of the Interest Group members voting, the amendment is approved. An approved amendment shall be effective immediately, unless otherwise specified in the amendment itself.