



# VIRGINIA ACADEMY OF SCIENCE, ENGINEERING, AND MEDICINE

*Focusing the Nation's Foremost Scientists, Engineers, and Physicians on the Challenges Facing the Commonwealth*

Since 1863, the National Academies have tapped the expertise and experience of the nation's most accomplished and innovative leaders in science, engineering, and medicine and tasked them with providing nonpartisan, objective guidance to decision-makers on the most difficult, challenging issues of the day.

In 2013, with the support of Sen. Mark Warner, National Academy members and other key individuals from Virginia formed a similar group to serve the Commonwealth. This effort has already produced results. The Virginia Academy of Science, Engineering, and Medicine (VASEM) holds well-attended annual summits on issues of concern to every Virginian, from the future of transportation to preparedness for emerging disease. It has also produced a highly regarded report for the General Assembly with a roadmap for expanding the state's aerospace industry.

The Virginia Academy offers a collective rigor and objectivity that no single institution can achieve on its own. Since its founding, this independent, expert resource for Virginia has become a model for new state academies across the nation.

## RECENT INITIATIVES

### Summit 2018: Securing Prosperity in the Coastal Zone

Hampton Roads and the surrounding coastal region has one of the most vibrant economies in the nation. It is home to the world's largest Navy base, a bustling port, and top-tier research institutions. Sea-level rise, more powerful storms, and a growing population are placing unprecedented demands on aging infrastructure and jeopardizing this progress. The Virginia Academy's summit attracted over 100 regional stakeholders to exchange ideas and build alliances to tackle these issues.

### Research Report: Aerospace in Virginia - An Opportunity for Growth

The Virginia General Assembly Joint Commission on Technology and Science asked the Virginia Academy to conduct a study of the aerospace industry in Virginia and identify areas with potential for economic development. The Virginia Academy formed an expert panel, and after consulting with a score of government and industry leaders, concluded that commercial space and related services and UAS manufacturing provide exceptional opportunities for growth.

### Summit 2017: Emerging Infections and Preparedness

Fueled by population pressures, climate change, and access to global transportation networks, previously unknown diseases are emerging and spreading at unprecedented rates, while diseases that had been controlled are developing resistance to current treatments. The Virginia Academy brought together experts from around the medical community to highlight the need for new platforms for diagnostics, vaccines, and therapeutics able to respond more quickly to these threats.





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## MISSION

### Inform

Provide an independent resource of expertise in science, engineering, and medicine to Virginia. Envision future trends and provide leadership in catalyzing emerging opportunities.

### Advocate

Promote investments in job growth, research, and solutions to challenges in science, engineering, and technology. Support emerging leaders in science, engineering, and medicine toward their election in the national academies.

### Serve

Foster new collaborations between businesses and Virginia universities and colleges. Grow Virginia's competitiveness for new business investments, federal funding



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