World-Class Robotics for Earth and Beyond

Land, sea, air, outer space — wherever your problems lie, we'll meet you there and revolutionize to solve it.

60+ Years of Experience

Our founding team has been tackling some of the toughest engineering problems for more than six decades combined.

Unbound by Industry

Robotics-inspired engineering has an application in almost any industry. We know because we've designed for just about all of them — from NASA to consumer goods to oil and gas and more.

Capable Across Disciplines

We thrive in complex situations that require multi-disciplinary teams. We can plan, manage and execute projects of all sizes that require electromechanical engineering specialties.

Creativity to Customize

We create unique solutions to challenging problems. Our services are defined by your needs, not by a templated process or standard set of tools.

LET'S TALK

Our process yields innovative breakthroughs through transformative collaboration

We maintain an equal focus on partnership and problem solving. Throughout the entire process, our team constantly works to ensure that the solutions we provide and the delivery of the final product meet the expectations of our staff and clients.

We're proud to be trusted engineering partners to clients across numerous industries and sectors

AXIOM SPACE · JPL · NASA · INTUITIVE MACHINES · FIGURE

TOYOTA RESEARCH INSTITUTE · Raytheon · FUGRO · BotBuilt CONSTRUCTION REVOLUTIONIZED · RUGGED ROBOTICS

Full System Space Platforms

Novium brings together decades of space design experience with its efficient design and manufacturing processes to deliver high-quality, low-cost, hardware and software on time and on budget.

Learn more about our Space Platforms →

Space-Grade Precision, Earthly Applications: Robot Arms That Function Everywhere

Experience space-grade precision in every industry with our revolutionary robot arms. Born from the challenges of space exploration and refined for terrestrial use, our robotic solutions deliver unmatched performance across diverse applications. Whether it's agricultural automation or construction, trust our technology to elevate efficiency and drive innovation in every sector.

Discover what kind of arms we can build together →

Environmental Testing

With our comprehensive environment testing procedures, we provide peace of mind to our clients, knowing that our equipment is capable of withstanding the rigors of space exploration. Partner with us and embark on your mission with confidence.

See our available environmental testing services →

Softgoods

Novium collaborates with customers to create new structural softgoods methods and technologies used in life sustaining inflatable habitats for traveling in space and living on the Moon and Mars.

Explore the numerous options available for softgoods →

Your trusted partner for solving problems from the Earth to the Moon and beyond

Mission

We're a robotics-inspired engineering firm that does business like humans — that means living by our values and building meaningful relationships that lead to mutual success.

Values

Integrity, Give First, Personal Growth, Teamwork, Technical Excellence

Vision

Our goal is to create a world where organizations undergo revolutionary technological change to usher in the next era of industry and harness the power of robotics, automation and electrification.

Opportunities to innovate are everywhere

and we're here to help you capitalize. Whether you're trying to make a product or system smarter, greener, safer or simply more efficient, robotics is often the answer. If it's not, we'll help you figure out what is.

Leverage deep experience across multiple engineering disciplines

With more than 60 years of combined experience, we've designed complex robotics systems for land, sea, air and space. Our founding engineers have solved the most pressing problems facing organizations ranging from small startups to Fortune 500s and NASA.

Our mission is to achieve your highest expectations. We pride ourselves on our ability to understand our clients' needs so we can create solutions that go above and beyond expectations – that's our commitment to you because that's just who we are. We're Novium.

Novium's Founders

Brice Howard

President

Brice is co-founder and President of Novium since its founding in 2021. He brings a wealth of engineering and leadership experience to Novium and is guiding the company through its pivot from primarily a successful partner in engineering services for mainly larger, established and leading new enterprises to a broader platform that will provide advanced robotics systems to help its current and new clients fulfill their ambitions in space. He has over 17 years of experience and excels in deploying complex novel hardware and software technologies. His technical skills as a mechanical engineer include deploying complex digital systems, digitization of manufacturing technologies (Industry 4.0), and, of course, robotics. Complementing his technical skills, he has developed an inclusive, driven management style setting large expectations and timelines to move quickly. NASA and Intuitive Machines, where collectively he spent nine years, have entrusted Brice and the Novium team with vital engineering services. Brice holds advanced degrees from the University of Houston and Texas A&M University.

James Holley

Director of Technology Development

James is a co-founder of Novium and serves as its Director of Technology Development. James began his engineering career at NASA, where we developed electrical and software skills in robotics as a member of the Robotics Group at the Johnson Space Center. At NASA, he worked on Printed Circuit Board designs and embedded control systems as well as C++ control loops and Linux drivers and high-level python scripts. He spent approximately three years at Celanese Corporation as a senior process controls engineer before joining Novium. Here at Novium James and our third co-founder Josh Figuered are responsible for R&D activities and have spent several months building the prototype Series 60 and 100 modular robotics systems. James graduated from the University of Colorado with degrees in Computer Science and Electrical Engineering and earned a Masters degree in Mechanical Engineering from Rice University.

Josh Figuered

Principal Robotics Architect

Josh is also a co-founder of Novium and is the Principal Robotics Architect. He is a mechanical engineer and has over 15 years of mechanical engineering experience developing complex robotic systems for land, sea, air & space applications. He started his career at NASA's Johnson Space Center where he worked in the Robotics Systems Technology Branch. At NASA, he was a systems design engineer and led hardware design projects for humanoid robotics and vehicles including the Space Exploration Vehicle, the Modular Robotic Vehicle, Robonaut, Valkyrie, and VIPER (Volatiles Investigating Polar Exploration Rover). He has specialized in the development of vehicular and robotic drivetrain, actuators, lithium-ion batteries design and field testing. Josh co-leads R&D at Novium. He graduated from University of Wisconsin with a degree in Mechanical Engineering.

Join the Novium team

We are always looking for talented new members who push us to be bolder, dream bigger, and perform better.

We believe that unreasonably great results are best delivered by a highly creative, diverse group of humans working in concert.

Mechanical Engineer Space Systems	Houston, Texas Remote	Full Time	
Experience : Mid-Senior Level	Apply Now		
Embedded Software Engineer	Houston, Texas Remote	Full Time	
Experience : Mid-Senior Level	Apply Now		
Space Robotics Software Engineer	Houston, Texas Remote	Full Time	
Experience: Mid-Senior Level	Apply Now		

Let's Talk!

We'd love to chat about your next project. We're positive that our solutions can help execute your vision and mission.

Name

What's your name?

Email

your@email.com

Message

What problem can we solve together?

Send it

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