



Sustainability Through Computational Science and AI

2022



As pioneers who empower our customers with innovative technologies and solutions, we continually look to the future to enable their sustainability initiatives. [Read More](#)

James R. Scapa

Founder, Chairman, and Chief Executive Officer

ALTAIR AT A GLANCE

Driving positive change for society and business with innovation intelligence.

\$572M

FY22 Revenue

3,000+

Engineers, Scientists,
and Creative Thinkers

13,000+

Customers Globally

74

Offices in 27 Countries

150+

Altair and Partner
Software Products

\$185M

Invested in Research
and Development



Overview



Planet



People



Products



Practices

PLANET

By leveraging the convergence of design and simulation, HPC, and AI, we help organizations transform their decision-making so they can make quicker, smarter choices in an increasingly connected and complex world – all while creating a greener, more sustainable future.



Approaches to Machine Learning-Driven Topology Optimization

- [Topology Optimization Helps Achieve Lightweight, Structurally Sound Structures](#)



Enabling Customer Sustainability

- [Emulating Engineering Expertise with AI](#)
- [Winning the Race and Staying Sustainable with Altair Solutions](#)



Boosting 3D Printing Design with Simulation

- [Ford Uses Altair Inspire to Create Lightweight Components for Vehicles](#)



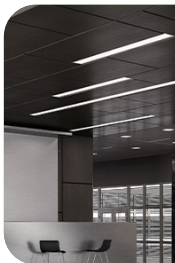
Faster Design for Electromobility

- [C-TEC Scales Up in the Cloud with Altair and Oracle Cloud Infrastructure](#)
- [Digital Twin for Sustainable Energy](#)



Collaborating with Partners in Our Sustainability Objectives

- [Digital Engineering: Charting the “Phygital” Frontiers with Digital Twins](#)



Offering Intelligent Building Solutions

- [Toggled](#)



Continued Collaborating with Partners in Our Sustainability Objectives

- [Maximizing CAE Throughput with Altair Solvers and 4th Gen AMD EPYC™ Processors](#)



Showcasing Premier Lightweighting Innovation

- [Altair Enlighten Award](#)



Overview



Planet



People



Products



Practices

PEOPLE

Altair fosters a culture of global diversity, professional and personal development, and innovation.



“

I'm proud of the work we continue to make in our quest to further diversify our global teams, embrace our values, and make our organization more equitable. Some of this inspiring work includes:

- **Altair's global internship:** Our global interns play critical roles and help us turn today's problems into tomorrow's sustainable opportunities.
- **Education sponsorship:** We're committed to funding scholarships and educational programs for underrepresented groups through diversity partners and global university programs.
- **Raising the bar on wellness:** We strive to offer the best health practices to foster wellness and encourage our employees (and community members) to lead healthy, sustainable lifestyles.
- **Empowering diversity through ERGs:** The success of our employee resource groups (ERGs) lies directly with their incredible members - their bold ideas and commitment spark change internally and externally.

Here, we believe that empowering each individual encourages an entrepreneurial mindset and collaboration. We've created a culture where our diversities, support of inclusion, and unique experiences are embraced and essential to our success.

Gilma Saravia
Chief People Officer



Overview



Planet



People



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Practices

Our Values

Change Tomorrow, Together

These values have been at the heart of Altair since the company was established. Our four values are the DNA that fuel the way we innovate, the way we collaborate and problem solve, the way we communicate effectively, and the way we embrace diversity. We don't just talk about our values - we live them.



ENVISION THE FUTURE

We follow a long-term vision that transforms markets and creates new opportunities for a sustainable future without boundaries.



COMMUNICATE HONESTLY AND BROADLY

We share information transparently to ensure broad awareness, engagement, and collaboration. We believe sharing knowledge is crucial for solving problems and fostering innovation.



SEEK TECHNOLOGY AND BUSINESS "FIRSTS"

We solve our customers' challenges by being first to deliver cutting-edge technology and business solutions fueled by our innovation, market strategy, and talent.



EMBRACE DIVERSITY AND TAKE RISKS

Our employees' diverse perspectives and experiences are a competitive advantage for us, and help us innovate, problem-solve, and achieve endless possibilities.



Overview



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Products

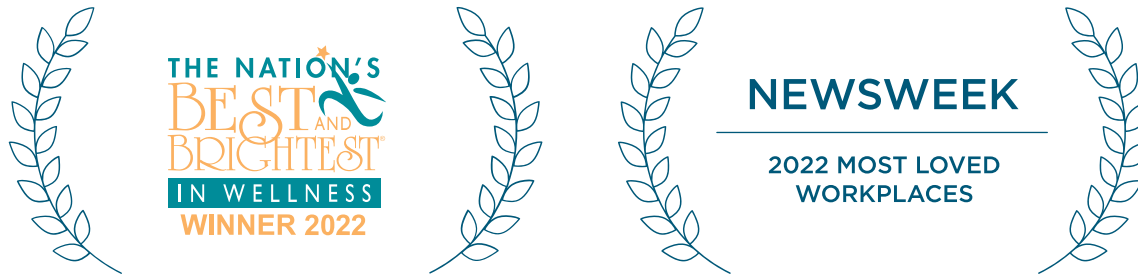


Practices

A Remarkable Year

Awards and Progress Showcase Our World-Class Culture

As a direct result of our outstanding innovation, dedication to our customers, and hard work, we won numerous awards that recognize our world-class culture, leadership, and global team.



Diversity and Inclusion

Diverse Culture Fosters Innovation

We recruit top talent and invest in our global workforce to fuel diversity, professional and personal growth, and innovation. With more than 3,000+ employees, our retention rate is well beyond the industry standard and is a testament to our engaging, inclusive culture.

75+

Languages Spoken

73%

Technical Employees

50

Nationalities

40%

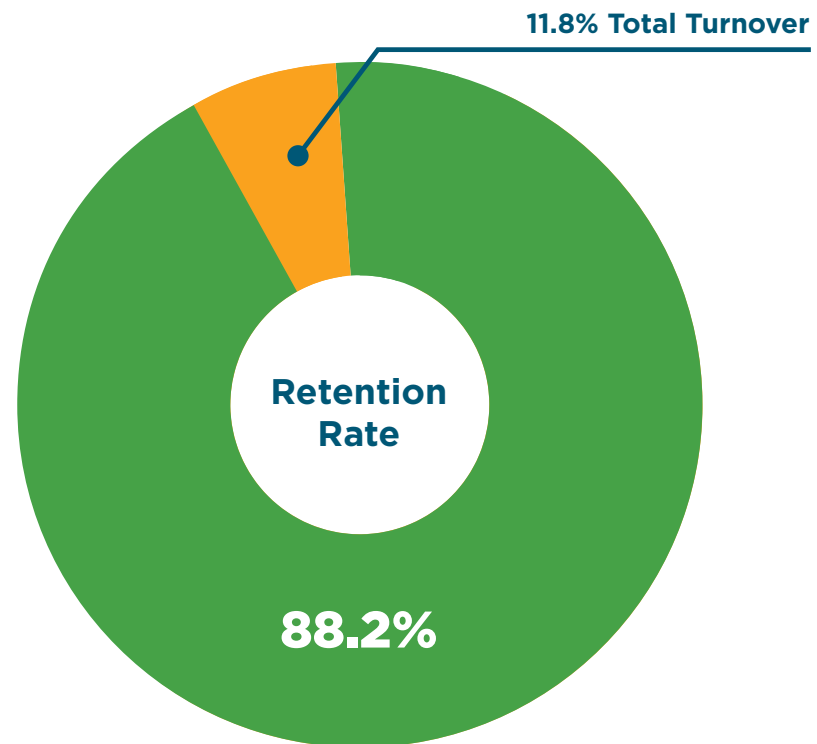
Early Career Hires

8+ Years

Average Tenure of Current Workforce

5+ Years

Average Tenure of Voluntary Attrition



Overview



Planet



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Practices

GENDER DIVERSITY

Women



Female C-Executives (CEO Direct Reports)



Women on Board of Directors



Women External Hires



INTERN PROGRAM



EXECUTIVES

43%

Diversity of Direct Reports to CEO

28%

Diversity in Directors Serving on Board of Directors

*This information is based on self disclosure.

EMPLOYEE RESOURCE GROUPS



WiT: Women in Technology



ABERN: Altair Black Employee Resource Network



30+ events sponsored globally by ERGs



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PRODUCTS

We offer cloud-based applications that let multiple organizations scale and share infrastructure, which eliminates countless independent compute server installations and gives them access to a host of applications that drive sustainable design.



Altair is at the forefront of the evolution toward a smarter, more connected world by pioneering the convergence of simulation, HPC, AI, and data analytics solutions. Convergence is about building seamless solutions and introducing highly engineered products into the market that support data-driven decisions.

Our software technology and consulting services help our customers bring safer and more sustainable products to market faster by optimizing material use and reducing cost, weight, and carbon footprint.

Srikanth “Sam” Mahalingam
Chief Technology Officer



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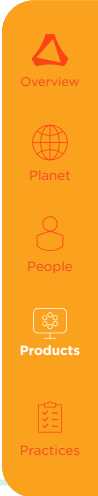


Altair One | Cloud Innovation Gateway

**ALTAIR
HYPERWORKS**
Design & Simulation Platform

**ALTAIR
HPCWORKS**
HPC & Cloud Platform

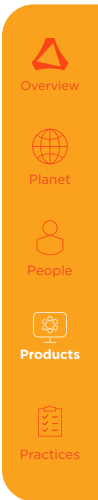
**ALTAIR
RAPIDMINER**
Data Analytics & AI Platform



ALTAIR CSR PRODUCTS

Sustainability Goal	Reduced Material Usage	Renewable Materials and Energy	Electrification and Advanced Communications	Waste Stream Reduction	Reduced Fuel Consumption
International Energy Agency (IEA) Target	Pursuing material efficiency strategies to their practical limit in the material efficiency variant reduces steel use by an additional 15% and cement use by another 17% in 2060.	Carbon emissions net zero by 2050.	Almost 30% of the 170 Gt CO2 cumulative emissions reductions from the use of low-emissions electricity in the NZE comes from technologies that are currently at prototype or demonstration stage, such as electricity-based primary steel production or electric trucks.	The goal aims to substantially reduce waste generation through prevention, reduction, recycling, and reuse.	A general rule is that a 6-7% reduction in specific fuel consumption can be achieved for each 10% reduction in vehicle kerb weight.
Altair Products	Altair® DesignAI™, Altair® EDEM™, Altair® HyperMesh®, Altair® OptiStruct®, Altair® Radioss®, Altair® SimLab®, Altair SimSolid®, Altair® S-FRAME®, Altair® S-TIMBER™	Altair® AcuSolve®, Altair® DesignAI™, Altair® HyperMesh®, Altair® OptiStruct®, Altair® Radioss®, Altair® SimLab®, Altair SimSolid®, Altair® ultraFluidX®, Altair® S-TIMBER™	Altair Activate®, Altair Compose®, Altair® EEVision™, Altair Embed®, Altair® Feko®, Altair® Flux®, Altair FluxMotor®, Altair® Pollex™, Altair® PSIM™	Altair® Monarch®, Altair® Panopticon™, Altair® RapidMiner® Cloud, Altair® RapidMiner® Studio, Altair SLC™, Altair® S-TIMBER™	Altair® AcuSolve®, Altair® DesignAI™, Altair® HyperMesh®, Altair® OptiStruct®, Altair® Radioss®, Altair® SimLab®, Altair SimSolid®, Altair® ultraFluidX®
Altair Solutions	Structural Analysis and Optimization	Structural Analysis, Optimization, and CFD	Electromagnetics, Electronic System Design, and Systems Modeling	AI, Data Analytics, Data Streaming, and Visualization	Structural Analysis, Optimization, and CFD

*Altair Products as of March 31, 2022



CASE STUDIES

Our solutions have helped forward-thinking global companies in all industries, shapes, and sizes, deploy their digital transformation initiatives and take ideas from concept to production faster and better than ever before.



AEROSPACE AND DEFENSE

- [Predicting Product Quality at TEN TECH AERO reduce the time spent on preprocessing, solving and postprocessing.](#)



AUTOMOTIVE

- [Lighter, Stronger, Quieter Vehicles - New Design Space Workflow for Structural Inserts at Sika](#)
- [Optimizing the World's First Robotic Car Storage Service with Stanley Robotics](#)
- [EV Adoption Insights](#)



FINANCIAL INSTITUTIONS

- [Reducing Approval Times, Increasing Loan Numbers, and Improving Borrower Experience at Fair For You](#)



TECHNOLOGY

- [NVIDIA Finds Dramatic Time, Cost Savings with Altair's 5G Wireless Network Solution](#)
- [ULEMCo - Delivering Net Zero Hydrogen Technologies](#)



DATA ANALYTICS AND AI

- [Machine Learning-Driven Topology Optimization Approaches](#)



HPC AND CLOUD

- [Tracking Virus Variants with AI](#)



SIMULATION AND DESIGN

- [Driving Model-Based Design to Accelerate Automotive Electrical Service](#)



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Practices

ALTAIR ACADEMIC PROGRAM

Altair seeks to prepare future innovators to drive decisions that leverage the convergence of simulation, HPC, and AI to predict and optimize system outcomes. Thousands of universities benefit from free campus-wide licenses of Altair software and hundreds of student-competition teams are designing cleaner, electrified vehicles with help from Altair. Additionally, high school students involved with FIRST Robotics are building better robots with Altair technology.

Where Students and Professors Use Altair Solutions

6,000+

Universities
Globally

160

Countries

1,000+

Courses

Users of Altair Solutions

100,000+

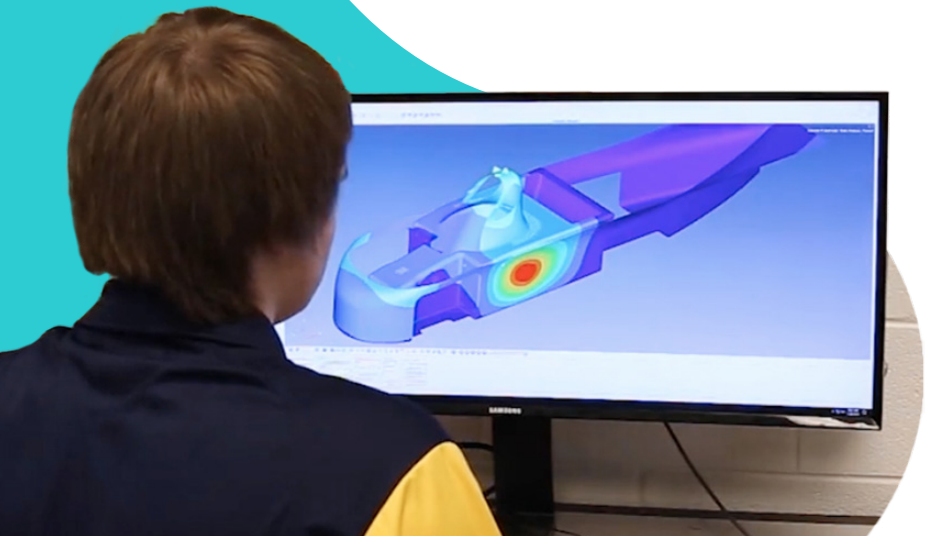
Students

3,100+

Professors

20+
Altair Staff

Volunteer to Teach
Engineering Courses
at Universities



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PRACTICES



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Altair is committed to protecting the privacy of the data we collect as detailed in our Data Security and Data Privacy policy. We have developed – and continue to improve – governance and compliance structures for data privacy, implement employee training and awareness on cybersecurity, and conduct regular risk assessments to ensure our software products, services, and solutions are secure.

Jeff Marraccini

Chief Information Security Officer

Data Security and Data Privacy

Our Privacy Policy describes the types of information we may collect from users or which users may provide to us when they license or use our software.

Code of Business Conduct and Ethics

Our Code of Business Conduct and Ethics (the “Code”) is designed to deter wrongdoing and help guide employees of Altair and its subsidiaries in their conduct in the course of our business.

Modern Slavery Statement

This statement is Altair’s response to the requirements of Section 54 of the Modern Slavery Act 2015 (“Act”).



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Learn more:
altair.com/sustainability

Changing tomorrow, together.

