



→ Irvine plays as hard as it works, which is why it's also a leader in the \$150 billion annual video game industry. Blizzard Entertainment's \$9.2-billion-grossing World of Warcraft has been called the world's best online role-playing game. Oculus VR created one of the world's first VR headsets,

TRANSPORTATION

hailed as the Tesla of trucks, and a host of other major auto companies – including **Ford, Kia, Volvo, Karma** and **Mazda**, which designed the bestselling sports car of all time right here in Irvine: the Miata.

the **Hyundai Motor Group** recently unveiled a plan to produce a flying taxi by 2028. Irvine is also home to **Rivian**,

→ The future of transportation is literally taking off in Irvine, where

Lone Echo pioneered virtual-reality adventure gaming. Now known as Gamer's Gateway, Irvine is also home to Sega, Amazon Game Studios and line

Frost Giant.

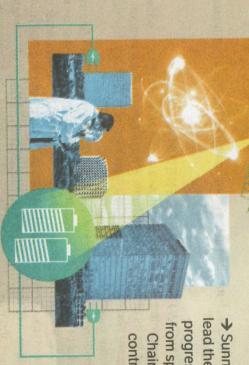


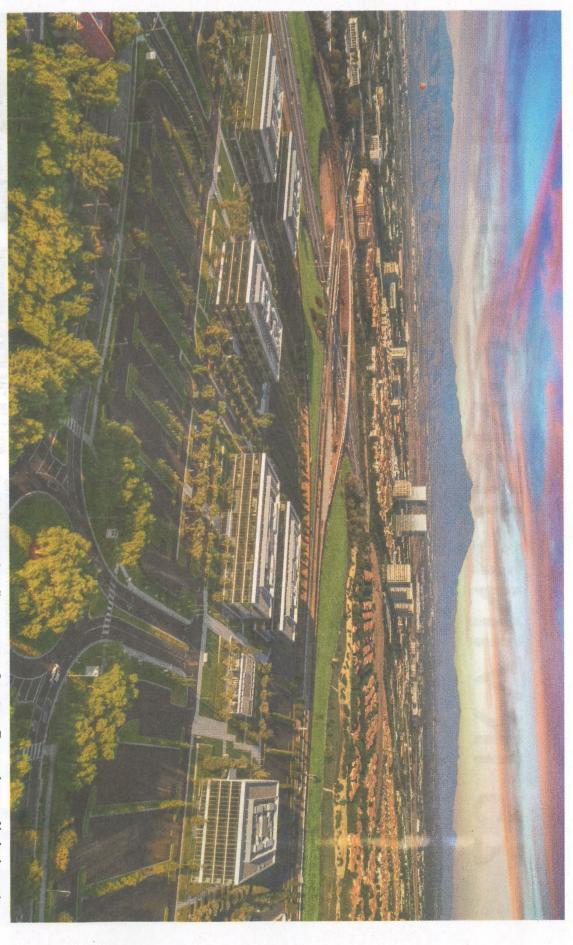
ALTERNATIVE ENERGY

→ Sunny Irvine is also helping to lead the way to potentially historic progress in harnessing solar power from space. Irvine Company
Chairman Donald Bren has contributed over \$100 million to Caltech's Space Solar Power Project, which promises to be a major breakthrough

in the global quest for clean, abundant and

also has created the world's first fleet of hybrid-electric high-rise office buildings, installing **Tesla** Powerpack batteries that reduce peak-hour power demand by 25%. At **TAE Technologies**, founded by the late **UCI** professor Norman Rostoker, engineers hope to harness nuclear fusion that can create nearly unlimited amounts of renewable energy.





elegant and luxurious new office campuses. Fortune 500 companies say it's easier to get employees back to work with amenities like these. With majestic views of olive and pine trees, an Olympic-length swimming pool and an indoor-outdoor fitness center, Spectrum Terrace is one of Irvine's most

"Communities around the country see Irvine as the gold standard. They are looking at the mixed-use areas, like

the processing Dictains that the housing shows rectain

LAUNCHED AT UCI

Ta, the co-founder of that online farmers market, discovered some of the many ways Irvine supports entrepreneurs from the first day he arrived on the

data and analytics. Students should be learning data skills, and educators should understand that data skills are a life skill, not just for a few in business or government."



TOSHIKI TAJIMA

Chief science officer,
TAE Technologies

Tajima leads a team of UCI-educated scientists pursuing fusion power with a unique reactor that produces no neutrons. They recently took a quantum leap forward, resulting in an additional \$280 million in funding from investors such as Google. If materialized, fusion reactors can produce nearly unlimited amounts of renewable energy that generates no radioactive waste. IN THE NEWS:



and Polk



TAE, founded in 1998 by a UCI professor, is now building its next-generation fusion reactor, named Copernicus. IN HIS WORDS: "Because of my mentor's groundbreaking work and our accomplishments this year, Irvine has become one of the epicenters of fusion energy research."



AND RYAN POLK

Founders, Archytas Automation

Irvine innovators Caswelch and Polk created "Dexter," a robot that can drive down the cost of automation by as much as 50%. Dexter's 200 parts can be made with a 3D printer before humans assemble and program it to perform rote tasks like bag-

aina coffee and cleaning laboratory

genre back into the spotlight where

bag," Caswelch says. say 'I can't wait to go put a label on a plants, and I can tell you that repetiaround manufacturing assembly few people wake up every day and tive injuries are common and that very turing. IN THEIR WORDS: "I've been for startups using additive manufac-AM Innovation Award in Barcelona. do their menial tasks. Last October, in November 2020 and has already pipettes. IN THE NEWS: Archytas the company won the BASF Forward firms save money by having Dexter helped small- and medium-sized moved into Irvine's Spectrum District



TIM MORTEN

CEO and co-founder, Frost Giant Studios

game with strong social features. IN HIS WORDS: "What the RTS genre We believe Stormgate brings this lacked was a modern, free-to-play the new moniker Gamer's Gateway. home to Blizzard and Ready at Dawn) as a worthy successor to past genre and last summer debuted Stormgate followed suit, earning Irvine (already half-dozen video game firms have move to Innovation Office Park, a greats. IN THE NEWS: Since Frost's He raised over \$35 million in funding real-time strategy, genre of games. October 2020 to revitalize the RTS, or co-founded Frost Giant Studios in Former Blizzard developer Tim Morten





HUOLIN XIN

Professor of physics and astronomy, UC Irvine

Xin is a principal investigator in a Department of Energy-funded project to improve lithium-ion batteries. His team recently found a way to fabricate them without using cobalt, a rare and costly mineral often mined under inhumane conditions. IN THE NEWS: In January, Xin's team published a report in Nature Materials that found nickel to be a promising replacement for cobalt in next-generation batteries. IN HIS WORDS: "Electric vehicle manufacturers are eager to curtail the use of cobalt in their battery packs, not only for cost reduction, but it's