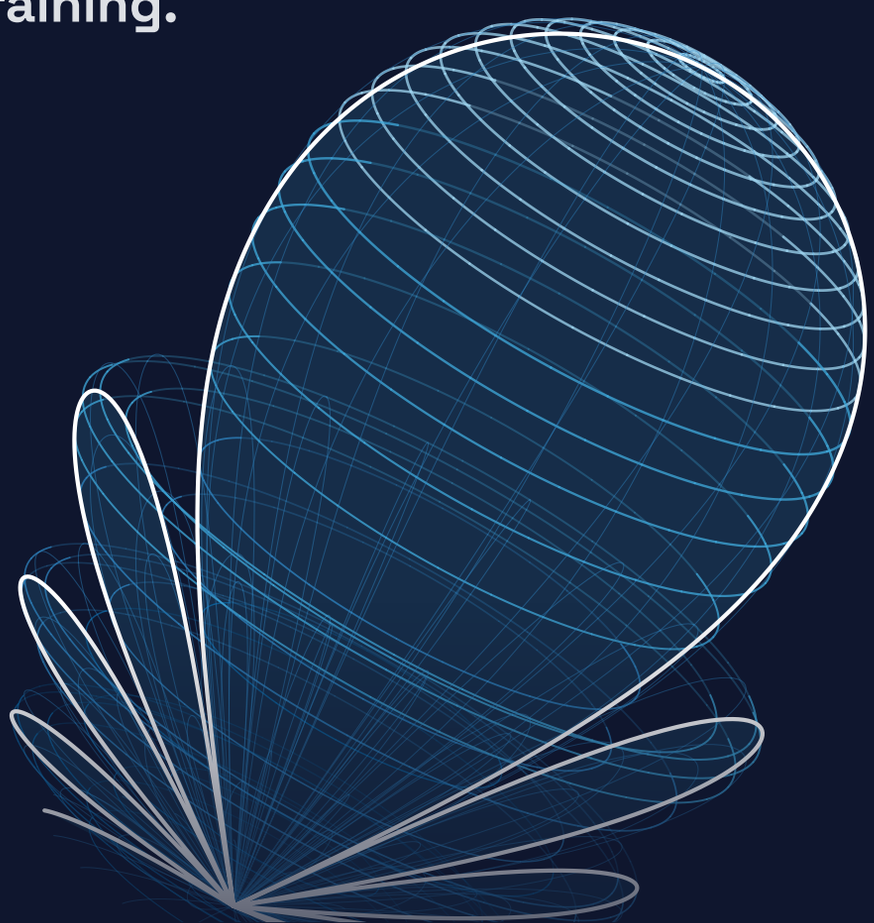
TICRA

Engineering Services

Expert engineering for antenna and electromagnetic applications: from early feasibility studies and detailed design to platform analysis, measurement correlation and training.



www.ticra.com | info@ticra.com



Solve Complex Antenna Challenges with Confidence

Our engineering services complement TICRA's software portfolio. We support clients across space, defence and communications.

We work with established organisations, start-ups and research institutions. Together, we solve complex antenna and electromagnetic challenges with accuracy, speed and trusted expertise.

First, we study your application and technical requirements. Then we build accurate electromagnetic models of the proposed solution. We design, analyse and optimise the antenna or EM configuration tailored towards the desired performance.

Trusted for more than 50 years

OUR SERVICES

- Feasibility studies and initial trade-offs
- Preliminary and detailed antenna design and analysis
- RF and electromagnetic modelling
- Platform scattering, antenna placement and radar cross section
- Uncertainty quantification analysis
- Software training, workshops and knowledge sharing

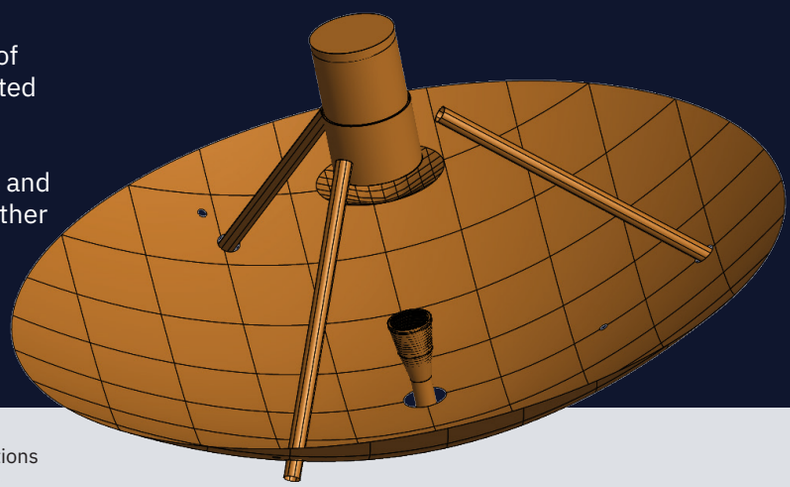
KEY BENEFITS

- Decades of trusted EM simulation tools and expertise
- Faster solutions and enhanced design outcomes
- Reduced risk in qualification and test campaigns
- Direct support from the engineers behind TICRA Tools
- Correlation between RF predictions and measurements
- Long-term partnership through Technical Support & Maintenance

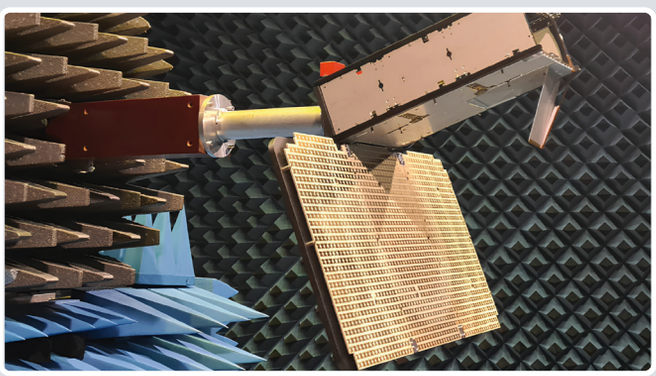
Why work with TICRA?

Our engineers work side by side with the developers of TICRA Tools, giving direct access to 50+ years of trusted EM simulation tools and expertise.

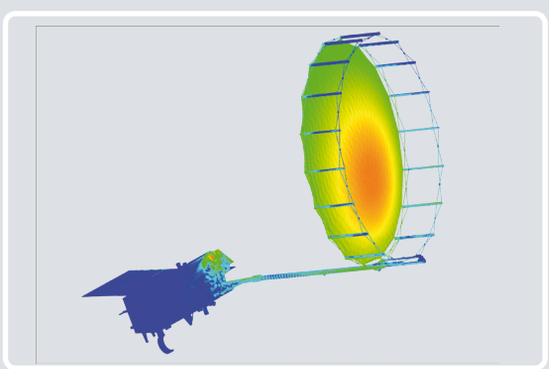
The result is faster solutions, better design outcomes and reduced risk in qualification and test campaigns, whether in space, defence or communication systems.



Preliminary to detailed final RF design: antennas and EM configurations are designed, analysed and optimised by TICRA engineers, with high-fidelity modelling throughout the design cycle.



Reflectarray for a 6U CubeSat at X-band: designed, built and RF tested.



Platform scattering analysis of the Copernicus Imaging Microwave Radiometer (CIMR).

Technical highlights

HOW WE WORK

- Understand your application and requirements
- Build accurate EM models
- Design, analyse and optimise
- Correlate predictions with measurements

METHODS

- Full-wave and asymptotic techniques
- Ray-tracing trade-off studies
- Detailed full-wave optimisation
- Uncertainty and tolerance analysis
- Platform and multipath effects

WHO WE SUPPORT

- Start-ups and large companies
- New space and legacy space
- Defence and security organisations
- Antenna measurement system providers
- Research institutions and universities
- Technology developers needing EM analysis

Integration with TICRA Tools

Our engineering services use the same trusted EM solvers as TICRA Tools, including GRASP, ESTEAM, CHAMP 3D, QUPES, POS and UQ, combining full-wave and asymptotic techniques for each part of the problem.

Through Technical Support & Maintenance (TSM), clients also get continuous access to new software capabilities and a direct line to the engineers behind TICRA's solvers.

Get in touch

Advance your antenna and electromagnetic projects.

Discover how TICRA's engineering team takes your antenna from early concept to qualified performance.

Request a technical consultation or discuss your application with a TICRA engineer.

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