



Nippon Advanced Information Service

**NAIS**



*To create a better environment for the next generation*



**NAIS Co.,Inc.**

<https://www.nais.ne.jp>



*We are a group of technology experts supporting Japan.*

*Our company is committed to enhancing the health and well-being of our employees while actively advancing the following initiatives to contribute to society.*

*We support the activities of domestic and international organizations to contribute to the development of the nuclear industry.*

*We will deepen our engagement with the local communities and actively work towards the development of the regions.*

*Our company was established in Tokai Village, Ibaraki Prefecture, the birthplace of nuclear energy in Japan, in 1990, and began full-scale operations in 1997. We primarily engage in nuclear-related work, providing advanced technologies such as criticality analysis, shielding analysis, accident analysis, nuclear fusion reactor development, and nuclear security technologies. We have continuously met our customers' needs with these services.*

*Nuclear technology is a global field, and we actively seek talented individuals from overseas while also participating actively in the activities of international organizations, striving to acquire cutting-edge technologies.*

*Backend / Shielding and Radioactive Concentration Measurement & Assessment, Radiation Dose Evaluation Analysis*

Radiological Waste Management and Disposal Assessment for Nuclear Facilities, Clearance Evaluation, Neutron and Gamma Radiation Dose Evaluation Inside Reactor Pressure Vessels (Using the Core as a Radiation Source), Analysis of Radioactivation Levels, and Research/Analysis of Radioactive Concentration Measurement Methods for Waste.

- \* Usage Code
- MCNP...Monte Carlo Code PHITS...Continuous Energy Particle Transport Monte Carlo Code
- ANISN, DOT, DORT, TORT...Multigroup Transport Code QAD...Simplified Shielding Code G33...Sky shine Calculation
- SCALE...Shielding / Criticality Code System

*Environmental Assessment*

Survey and Mapping of Aircraft Monitoring Data  
Investigation of the Distribution of Radioactive Contamination in the Atmosphere at Fukushima  
Investigation of the Distribution of Radioactive Contamination in Soil at Fukushima  
Assessment of Public Radiation Dose from Atmospheric and Oceanic Dispersion, and Investigation by Aircraft Monitoring

- \* Usage Code
- ARC-GIS, ANDOSE, ATRENO, ATRENO-G, TERFOC, SEADOSE, WSPEEDI, SPEEDI...etc.
- ARC-GIS...Mapping of Map Data
- EDAS...Environmental Radiation Dose Assessment System for Public Exposure in Normal and Accident Conditions
- COQDOQ...Radiation Dose Assessment Code
- QUICKDOSE...Atmospheric Dispersion Code
- ※Computational system for evaluating scenarios from criticality accidents, fire or explosion accidents to public radiation dose assessments.

*Structural Integrity, Reliability Assessment, Visualization Software*

Thermal and Stress Analysis Using Finite Element Method (FEM)  
Development of Structural Analysis, Assessment, and Visualization Software  
ABAQUS, Nastran, ANSYS, FINAS

*Criticality Analysis*

Computation of Complex Geometries, Single-Unit to Multi-Unit Analysis, Diffusion Calculations, and Perturbation Calculations  
\* Usage Code  
MCNP, MVP, SERPENT, KENO, JACS, SRAC, MOSRA, ANISN, DOT, CASMO, LANCER, CITATION, DANTSYS, PERKY, SNPRT

*PRA Analysis and Thermal Analysis*

Probabilistic Risk Assessment (PRA) for Nuclear Facility Accidents  
Event Tree · Fault Tree  
Support for Levels 1 to 3 for reactors and to reprocessing facilities  
From Atmospheric Dispersion of Radioactive Materials to Public Radiation Exposure Assessment  
WIN-NUPRA...Probabilistic Safety Assessment (PSA) Analysis Code  
SAPHIRE...Probabilistic Safety Importance Assessment

*Criticality Accident Analysis*

Criticality Behavior Analysis and Assessment of Liquid & Powder Fuel

*Fuel Safety Analysis and Fuel Calculation Analysis*

Criticality Events, Reactor Burnup Calculation, and Evaluation of Fission Products and Other Related Factors  
Development of a High-Precision Core Analysis Code System  
CASMO/SIMULATE...Development of a High-Precision Core Analysis Code System  
FEMAXI...Steady-State Fuel Behavior Analysis Code  
\* Usage Code  
ORIGEN, SWAT, SRAC, MVP-BURN, DCHAIN, SKETCH, TRACE



*Database*

Operation of Oracle / Construction of Dose Management Program Database  
Construction of Waste Research Database

*Nuclear Disaster Prevention*

Assistance Work for Nuclear Disaster Prevention Drills in Japan and Survey of the Current Nuclear Disaster Prevention System  
\* Usage Code SPEEDI, WSPEEDI

*Survey / Investigation of Domestic and International Nuclear Reactor Facilities*

Investigation and Analysis of Accidents at Nuclear Reactor and Reprocessing Facilities, Domestically and Internationally

*ITER-related*

Design and Development of Code for Spatial Distribution Data Analysis of Fusion Plasma  
Radiation Environment Assessment within ITER Measurement Devices  
Creation and Management of ITER TF Coil Structures  
Shielding Analysis of the Blanket Section of the Fusion Reactor  
\* Usage Code C Language, Fortran, Python, Process Management Software(Primavera, MS-Project), MCNP, CAD

*Contracted Research and Development (R&D)*

- Radiation Analysis of Accelerators in the Field of BNCT (Boron Neutron Capture Therapy)
- Research and Development of Fusion Reactors /Structural Analysis of ITER
- Imaging of Fukushima Nuclear Facility Using Laser Beam Irradiation
- Research and Development of Advanced Reactors
- Support for Nuclear Disaster Prevention and Preparedness
- Development of Nuclear Security Technologies
- Backend/Radioactive Waste Management and Disposal, Clearance Evaluation, Neutron and Gamma Radiation Dose Assessment, and Activation Analysis in Reactor Pressure Vessel Using Reactor Core as a Source
- Environmental Assessment/Safety Evaluation and Analysis of Fuel Debris Generated from Fukushima Daiichi Nuclear Power Plant
- Core Analysis/Development and Verification of High-Precision Core Analysis Code System
- Research and Development on Geological Disposal/Analysis and Evaluation of the Interaction Between Engineered Barriers and Groundwater
- Nuclear Security, Visualization Systems, and VR (Virtual Reality) Operations Support
- Analysis of Core Damage Frequency in PWR Plant PRA Model Using Win-NUPRA Code
- Development of Importance Evaluation Methodology in Level 1.5 PRA for PWR Plants
- Level 3 PRA Analysis Using Source Term for Severe Accidents in PWR Plants
- Creation of Event Tree for Severe Accident Scenarios in Reprocessing Facilities

*Quality Assurance*

- We have obtained ISO 9001 certification and distributed the Quality Assurance Manual to all employees, ensuring thorough attention to quality control in our products / services.
- We have compiled the Information Security Manual in accordance with ISO 27001 and ensured thorough training on security protocols.
- The Information Security Department continues to monitor, review, maintain, and improve information management practices.



*Development of Fast Reactors and Advanced Reactor Designs*

Research and Development of Molten Salt Reactors (MSRs), Analysis of Fast Reactors, Monju, and Joyo

- \* Usage Code MCNP, MVP, SERPENT



### Personnel & Company Qualification

- Doctor of Engineering
  - Doctor of Science
  - Radiation Management Supervisor
  - Organic Solvent Work Supervisor
  - Information Processing Engineer, Class 1 and Class 2
  - System Administrator
  - Hygiene Management
  - Worker Dispatch Business License
- Quality Management System ISO 9001:2015 Certification



### Summary

Company name	NAIS Co., Inc.
Representative Director	Naoto Naito
Business category	Development of Computer Software Scientific Computing Services Nuclear Information Services Personnel Dispatching Services (License Number: Dispatch License No. 派08-300316)
Register	June 7, 1990
Establishment	April 1, 1997
Capital	10 million yen
Executive	2 (as of August 2024)
Member	approximately 50 employees (as of August 2024)
Address	416 Muramatsu, Tokai-mura, Naka-gun, Ibaraki 319-1112, Japan TEL029-270-5000 FAX029-270-5001
Major clients	Japan Atomic Energy Agency (JAEA) Nuclear Regulation Authority (NRA) National Institutes for Quantum and Radiological Science and Technology (QST) The Institute of Physical and Chemical Research (RIKEN) Marubeni Utility Service Corporation Electricity-related companies National Nuclear Energy Agency of Indonesia (BATAN), BRIN The University of Tokyo University of Tsukuba Tokyo City University Tokyo Institute of Technology, etc. Jensen Hughes, Inc.(USA)

### History

- May 1990** Establishment of NAIS Co., Inc. (株式会社ナイス)
  - January 1996** Capital increase of 5 million yen
  - April 1997** Appointment of Mr. Yasutaka Naito as Representative Director
  - December 2004** Establishment of the computer server room through construction
  - February 2007** The registered address has been changed to 416 Muramatsu, Tokai-mura, Naka-gun, Ibaraki
  - January 2008** The land area has been increased by approximately 495 square
  - April 2013** The building has been renovated and expanded
  - September 2016** License for worker dispatch services  
General worker dispatch registration license (No. 派08-300316)
  - September 2019** Quality Management System (QMS)  
ISO 9001:2015 Certification
  - December 2019** An agreement for the domestic production project of 99Mo-99mTc will be signed between the Indonesian BATAN, Kaken Co., Ltd., and our company.
  - September 2021** Appointment of Mr. Naoto Naito as Representative Director
  - Jun 2024** changed Company's name to NAIS Co., Inc. (NAIS株式会社)
- List of Awards**  
Gender Equality and Participation Promotion Company in Tokai Village  
2017 Environmental Conservation Promotion Company (Awarded as an Earth-Friendly Company)  
Ibaraki Prefecture Environmental Partnership Division

### Affiliated Organization

Tokai Society of Commerce and Industry,  
Ota District Federation of Corporations  
(General Incorporated Association),  
Ibaraki Management Association,  
Tokai Village Nuclear Cooperation Association, Nuclear  
Human Resources Development Council,  
Tokai Village Lions Club,  
Ibaraki Prefecture Police Officers' Friendship Association,  
Tokai Village Social Welfare Council, etc.

### Holidays and Leave

Complete 2-Day Weekends  
Summer Vacation: 7 days (July to September)  
Paid Leave: 20 days (as of April upon joining)  
(Additional 20 days the following year, with a maximum of 40 days)  
Other Leave: Year-End and New Year Holidays, Maternity Leave, Parental Leave, etc.  
Annual Holidays: 124 days or more

### Training System

- New Employee Training
  - Introduction to Basic Nuclear Power Course
  - Introduction to C Language/Python Programming Course
  - Follow-up Training, etc.
- \* All course fees and transportation costs are covered by the company.

### Salary and Bonus

Salary Increase: Once a year (in July)  
Bonus: Twice a year (in June and December)  
\* A guaranteed bonus of 4.2 months' salary for the first 3 years after joining the company.

### Allowances

Fully provided with various social insurances, Work Injury Insurance, Commuting Allowance, Scholarship Assistance, Social Media Allowance, Housing Allowance, Childbirth Reward, etc.



### Map



**By Train:**  
Exit the East Gate of Tokai Station on the Joban Line, then walk east along Genken Street for about 3 minutes from the Muramatsu Intersection.

**By Car:**  
5 km from the Joban Expressway Tokai Smart IC. (Parking available)



416-1 Muramatsu, Tokai-mura, Naka-gun, Ibaraki 319-1112, Japan  
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NAIS\_TOUKAI

 Instagram



 LINE



 Website