



ADVT.

Nokia is a world leader in mobile communications, driving the growth and sustainability of the broader mobility industry. Nokia connects people to each other and the information that matters to them with easy-to-use and innovative products like mobile phones, devices and solutions for imaging, games, media and businesses.

Nokia's investment in R&D is a key factor for its success. Nokia has R&D centres spanning the globe and has about 1/3rd of its people in R&D; the demanding research environment at Nokia has brought world-leading experts and newcomers to work together in international teams.

Living the future

In short and medium term research, Nokia R&D Teams support product development units in mastering key technologies and

NOKIA R&D @ Bangalore

their evolution. Long term research serves as an organisational pioneer. The ability to react to sudden changes is developed through long-term research. By challenging the present working methods and technologies, research keeps the organisation moving. Nokia has learned to focus on research for the future, while generating new technologies useful for the present.

Another factor for success is the organisational culture, which consciously cultivates the innovative spirit and encourages individual initiative. At Nokia, information and people are moving constantly around the company, radiating knowledge and assisting internal benchmarking.



Nokia swings with the times

- 1992** Nokia launched the first GSM handset, the Nokia 1011.
- 1994** the world's first satellite call is made, using a Nokia GSM handset.
- 1998** Nokia becomes the world leader in mobile phones.
- 1999** the Internet goes mobile with the launch of the world's first WAP handset, the Nokia 7110.
- 2002** Nokia launched the first 3G phone, the Nokia 6650.
- 2003** Nokia launched N-Gage, in which mobile gaming goes multiplayer.
- 2004** saw the birth of the Nokia Nseries, the next generation of multimedia devices. The Nseries are easy to use devices combining state-of-the-art technology with stylish design, and are complete entertainment and communication packages.
- 2005** saw the billionth Nokia phone being sold – a Nokia 1100 – in Nigeria. Global mobile phone subscriptions pass 2 billion.

Make your mark at Nokia's R&D Centre

Sr. SW Design Engineer

- Must have 4-8 years of experience in integrating multimedia features for embedded systems
- Responsible for audio architecture development involving developing and integrating OpenMax IL based components
- Exposure to multimedia frameworks like Symbian MDF, OpenMax IL etc. and audio system level issues
- Strong experience in C/C++, embedded systems and real-time operating systems (RTOS), ARM and DSP architectures, test and debugging of algorithms in real-time system.

Technology Asset Manager

- Interface with technology vendors and customers and help specify the requirements for audio, speech and/or video codecs
- Responsible for identifying potential sources for new technology components, evaluating the available solutions and managing the technology asset and licensing budgets
- Should have good feature and system level knowledge in the audio, speech and/or video coding area
- Familiarity with major standards like AAC, MP3, MPEG-4, H.263, H.264 etc.
- Experience in customer interaction, requirement management, development and/or project management.

Protocol SW Design Engineer

- Responsible for analysis, design and implementation of needed changes to SW and/or related documents
- Accountable for errors under his/her responsibility
- Participate in interface specifications inspection, coordinate/execute unit testing, test case inspection, indicate fast testing needs
- Must have good skills in C (and/or SDL) programming
- Knowledge of software engineering principles including analysis, design, implementation and unit testing, GSM and (E) GPRS protocol, SW configuration and version management tools (CM Synergy).

UI Specifier

- Should have 4-6 years of relevant experience
- Work in a product creation project with independent decision making powers
- Should create task flow diagrams, define navigation and interaction pattern, UI prototype, storyboards and guidelines for UI development, style guides and UI specifications
- Manage the user experience and interface design effort
- Conduct quality evaluations to ensure the user experience vision, design and standards are being fulfilled in the applications
- Facilitate requirement gathering and design sessions.

Software Engineer

- Should have 2-6 years of relevant experience
- Responsible for coding in the defined area, e.g. developing applications for mobile devices
- Must be strong in software programming, C++ and object oriented programming
- Experience on Symbian OS and Symbian C++ exposure will be highly preferred.

Software Engineers – Java Platforms

- Should have relevant experience of at least 3-5 years in Java Platforms, VM and runtime system. Java UI toolkits Developer API's (JSR's and proprietary)
- Work on Java programming and SW development, developing APIs and building Java applications, JSR development, testing for JSR dev through writing drivers and executing it, testing through Tck for API conformance.

PE SW Integration Engineer

- Provide SW integration expertise to product development
- Responsible for integration and problem solving of mobile phone system SW and/or wider SW technology area including debugging and business critical bug fixing in multimedia computers
- Should be able to make SW modifications to technology platform (Symbian/S60) to allow the full integration of sub-systems, components and features
- Should have professional experience in object oriented SW design, SW development methods and tools, SW integration, embedded software, C++ programming
- Good knowledge of Symbian operating system will be highly preferred.

Test Engineer

- Involved in all test related activities for SW Test Team
- Write test based on design specifications and customer requirements
- Manage release, regression and acceptance testing of customer deliverable software
- Verify error corrections/solutions in the latest target build
- Should have good knowledge and several years of experience with functional and non-functional testing of Symbian S60 software
- Should have programming skill which is sufficient for automation
- Experience with automated testing tools and routines is desirable.

Build Engineers

- Responsible for building and releasing maintenance software packages of multimedia computers
- Should be able to provide support in SW configuration management issues, trouble shooting, keeping the SCM system consistent, SW build process development and automation, tools development, documentation
- Should have knowledge and/or experience in SW build and release creation, Linux and Windows, SW configuration management tools and scripting languages (e.g. CM Synergy, Perl, Python), C/C++, Symbian OS building tools.

To apply and to know more about other exciting opportunities log on to www.nokia.com/A4126298
Candidates with less than one year experience need not apply.

Together, we achieve.

NOKIA
Connecting People

Voices from Nokia

"At Nokia R&D Bangalore, I am heading a group which develops core electronics for mobile phones. We not only develop state-of-the-art technology but also nurture professionals. Personal development comes as a part of everyone's objectives."

- Iqbal Khan.

"I found the unique work culture, the freedom to try out new things, and the support that we get at Nokia R&D Bangalore makes work enjoyable and helps us to excel in whatever we do. And that's what makes it a great company to work for."

- Jijo Mathew.

"Bringing an idea into reality, is an opportunity that I have got by being a part of the Nokia R&D Centre in Bangalore. Hear new, Feel new and See new. If you have an innovative idea and want to convert it into reality, then its Nokia for you."

- Manu Rao.

"Nokia R&D is now positioned to make the break-away into the next leap, whether it be Internet based company or next generation services. In this transition period there are quite interesting challenges ahead of us."

- L-S Vishnukiran.

"We are responsible for making the cellular modem engine for the N-Series multimedia phones wherein we work with technologies like 3G, (E) GPRS, GSM, SIM, Device security, CDSP, WLAN, GPS and all kinds of device drivers. We are proud to be a part of a young talented team driving the latest technologies for connecting people."

- Sanjoy Dass.

"I am working on high speed system design which enables me to sharpen my skills on the latest technology and the global interactions with other teams provide me the complete understanding of mobile architecture. Nokia provides a friendly and flexible environment which motivates and makes me happy to work."

- Janakiraman.

"It's a great kick to see your work in 350 million phones each year, transforming that many lives. It's a fantastic experience to see 350 million phones carry your SW, transforming that many lives each year."

- Rajeev Ramamurthy.

