



Agencja Rozwoju Aglomeracji Wrocławskiej  
Wrocław Agglomeration Development Agency

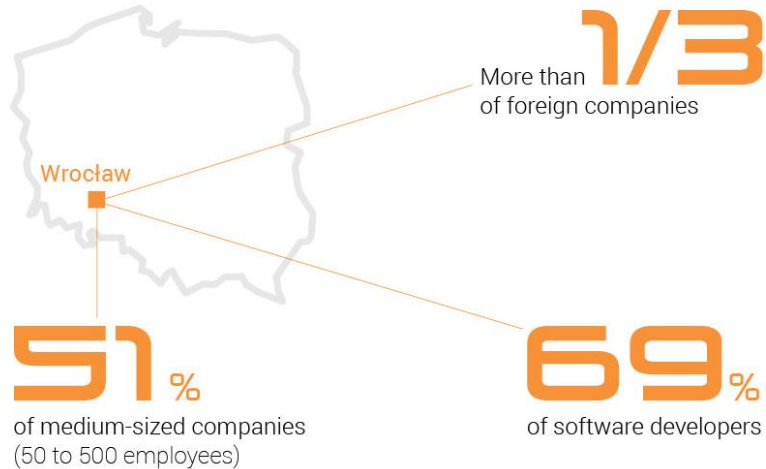


# IT Industry & Education in Wrocław



**WROCLAW**  
**- A FAVOURABLE CLIMATE FOR IT**

# Wroclaw – the leading IT technology hub in Poland

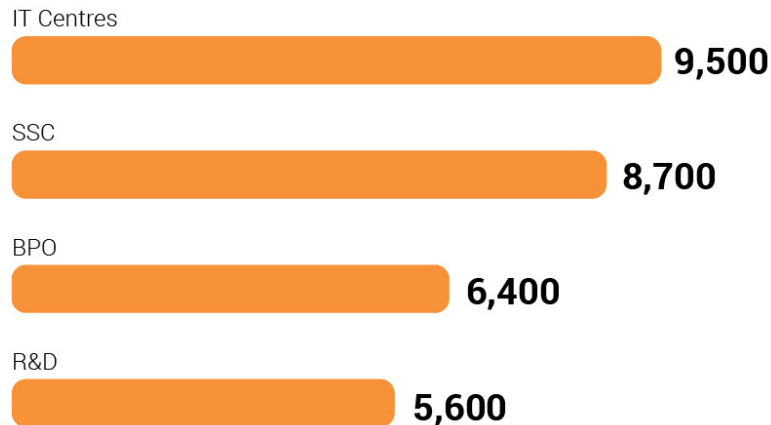


According to our estimate the size of the IT sector in Wroclaw amounts:

+ 200 companies

+ 20 000 professionals

## BPO/SSC/ITO companies are the largest contributors in terms of employment



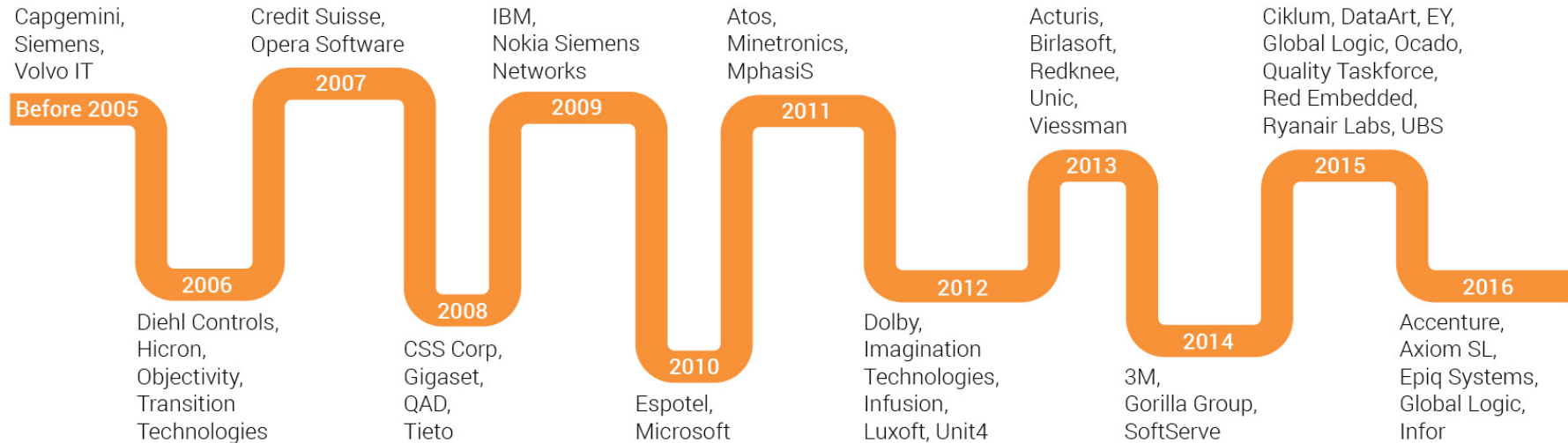
Business Services Sector in Poland 2016. Gaining Momentum – PAIIZ

Over 80% of the R&D aggregation are IT companies

# Dynamic IT ecosystem of foreign and Polish players



## Major foreign investments in the IT sector in Wrocław in subsequent years



## Selected IT companies, which were created or launched major operations in Wrocław

**2001-2010** SMT Software, Hicron, PGS Software, REC Global, Fingo, Sente, Techland, LiveChat

**After 2011** Ten Square Games, ToopLoox, Droids On Roids, Brand24, PiLab, Monterail, Mirumee, Appformation

# Selected IT companies in Wrocław



- **Large companies (250+)**

Atos, IBM, Nokia, Capgemini, Objectivity, Unit4, Global Logic, Luxoft, Sii, SMT Software, Hicron, Tieto.

- **Medium companies (50-250)**

Acturis, Axit, Better Software Group, BLStream, Ceneo, Comarch, CSS Corp, DataArt, Diehl Controls, Divante, Dolby, Enabledware, Rinf, Espotel, Fingo, Gigaset, Grupa Unity, Imagination Technologies, Indata, Infor, InSert, IT Kontrakt, Livechat, Logitrans, Minetronics, Mphasis, NBC, Neurosoft, Ocado, Opera Software, PGS Software, Pilab, QAD, Redknee, RightHello, RST, Ryanair Labs, Sente, Silicon & Software Systems, SoftServe, Sygnity, Talex, Techland, Ten Square Games, Tequila Mobile, Tooploox, Transition Technologies, Viessman, Vulcan, Yuma.

- **Other IT companies**

Accessto, Agile Force, All Mobile, Anixe, Appformation, Arkency, Astek Polska, Brand24, BrighOne, BTech, Callstack.io, CCA, Cogniance, Dook Pro, Droids on Roids, EARP, Empirica, Fast White Cat, Fream, Fun Media, Geosoft, GISPartner, Gorilla Group, Grinn, Huzar Infusion, Inteca, Intenso, ITMation, look4IT, Minetronics, Mirumee Software, Mobile Vikings, Mok Yok IT, Monterail, MT Silesia, Naturally, Neurosys, Nomtek, Ocado, Picadilla, Quality TaskForce, RatioWeb, Red Embedded, Red Sky, Ringo Sagiton, Satlan, Sienn, Soflab, Sofomo, Software, Solsoft, Solutions, Stemedica, STX Next, Testuj.pl, Trapeze Poland, Vratis, Wilabs, Zone IT.

- **Companies from other sectors with significant IT activity, located in Wrocław**

3M, AB, BZ WBK / Santander, Catlin XL, Credit Agricole, Credit Suisse, Eurobank, Europejski Fundusz Leasingowy, EY, Getin Noble Bank, Impel, Kaufland, KRD Economic Information Bureau, Kruk, Netia, PPG, Qiagen, Synexus, TelForce One, UBS, Ultimo, Volvo IT.



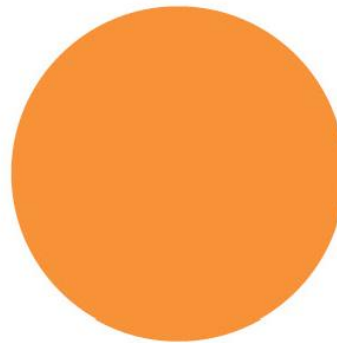
# Leading academic center in Poland



**WROCLAW**

**124,440**  
students in total

**9** universities educating  
students in Wrocław  
for the needs of IT companies



**32,328**  
graduates



**34,831**  
students of exact  
sciences  
(technology,  
industry)

computer science  
students



students  
in related fields



computer science  
graduates



graduates  
in related fields



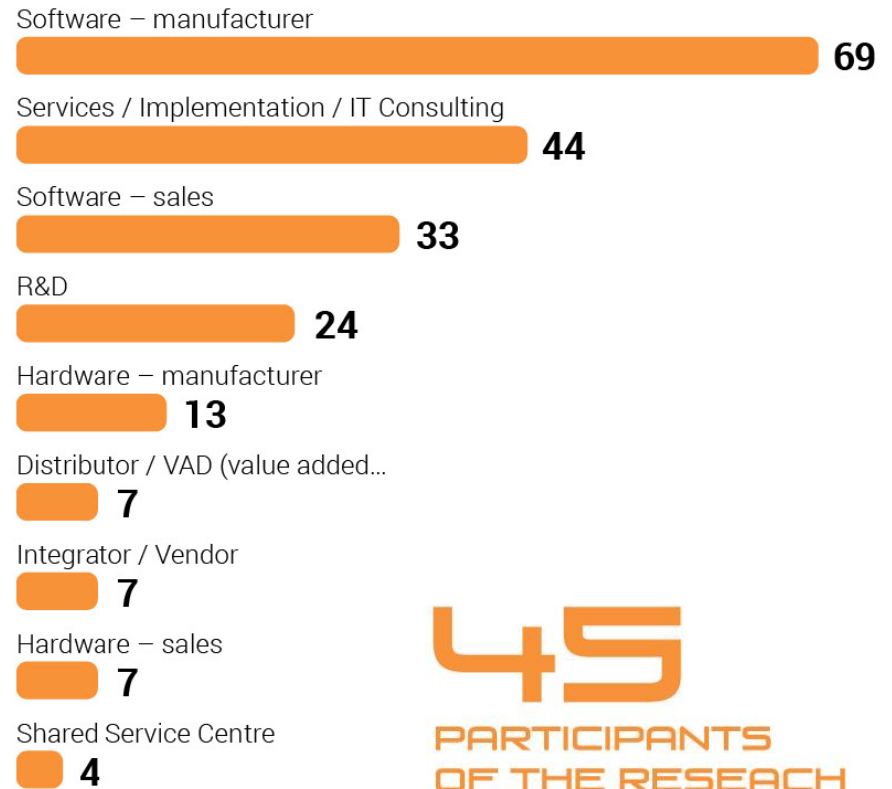
**FROM THE PERSPECTIVE OF  
COMPANIES.  
RESEARCH RESULTS**

**IT**

# Wroclaw's IT companies - who are they, what do they do?



## Business profile (%)

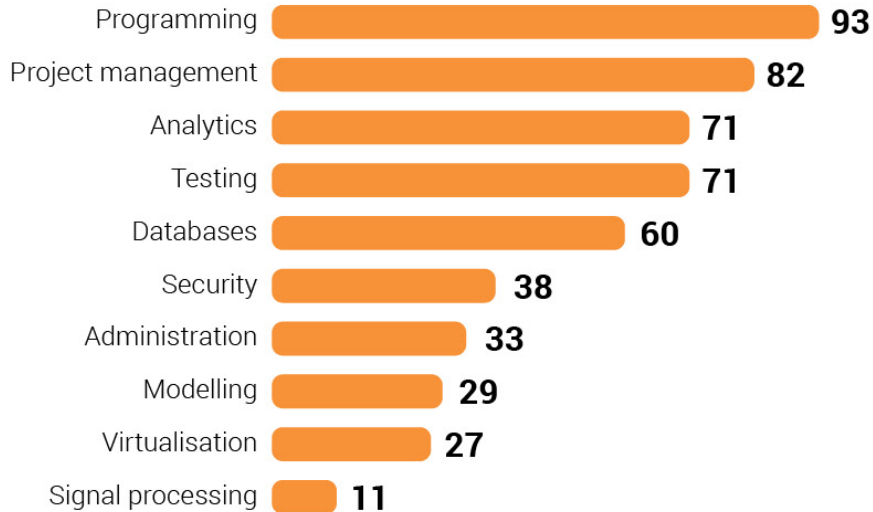




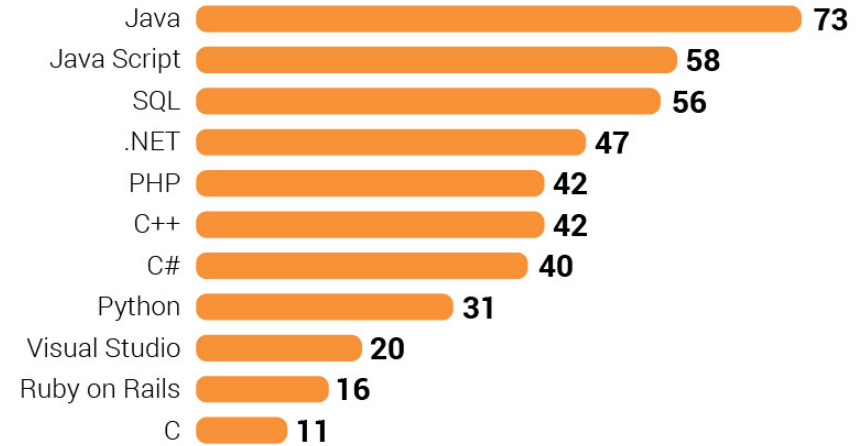
# Profile of the sought candidate - the desirable specialist competencies



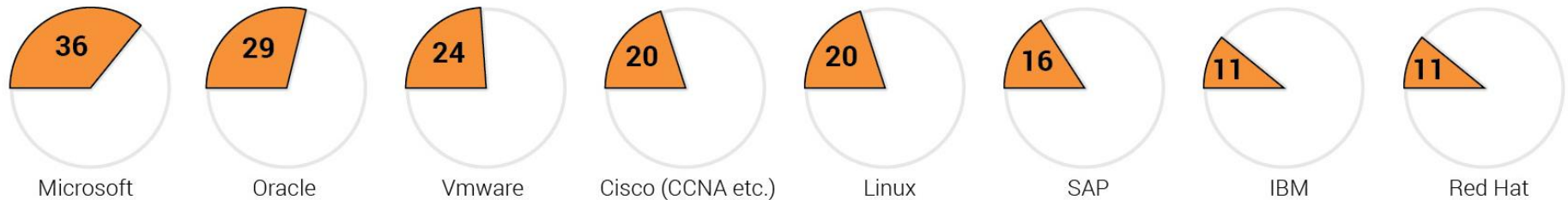
## The most desirable specialist competencies (%)



## The desired programming languages (%)



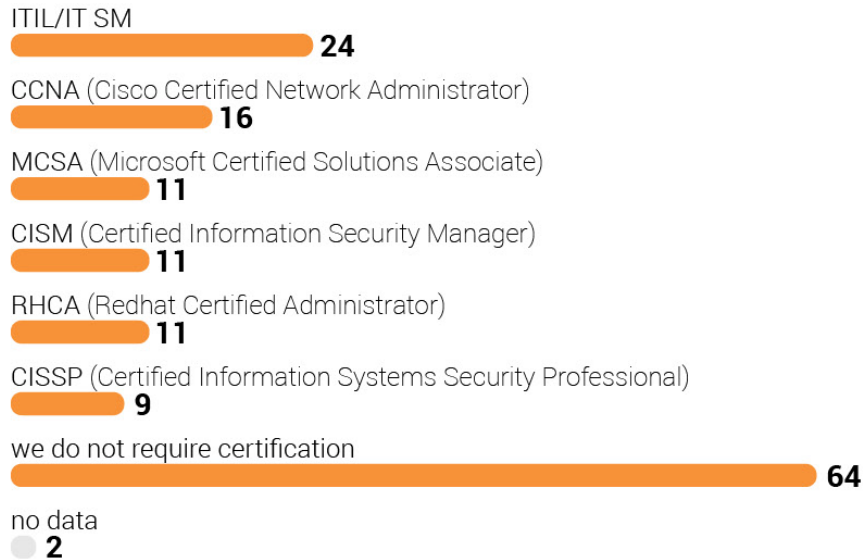
## The most desirable certifications of software manufacturers (%)



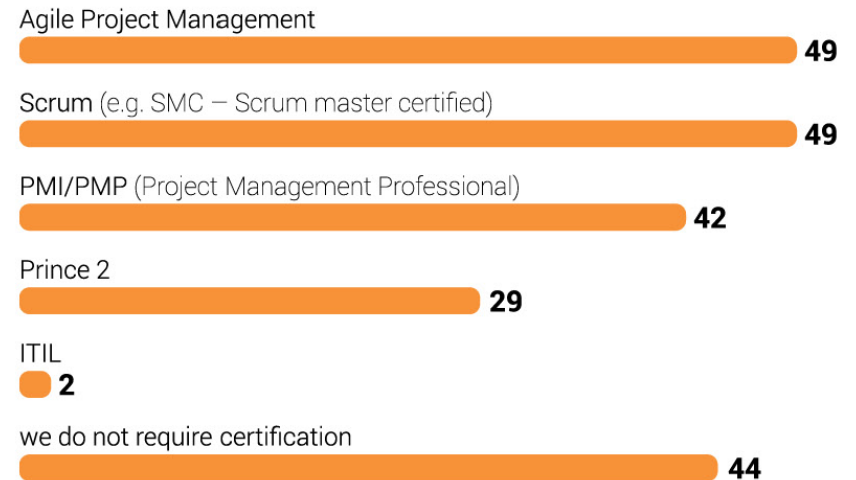
# Profile of the sought candidate



## The desired certifications in administration/security (%)



## The desired certifications in project management (%)




## The desired certifications in the field of modelling / analysis / testing (%)

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ISTQB (International Software Testing Qualifications Board)  
 **42**

UML  
 **20**

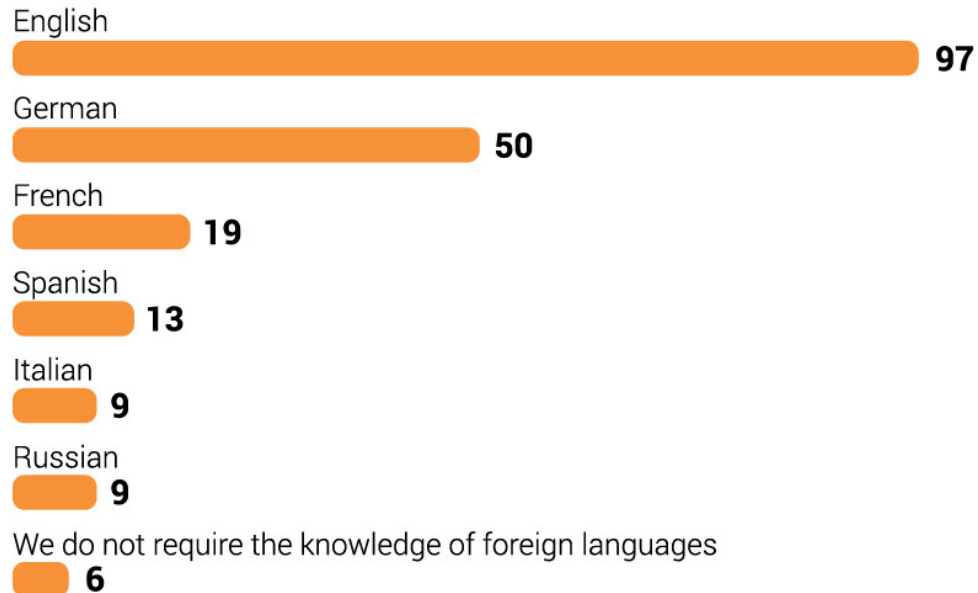
IIBA (e.g. CCBA – Certification of Competency in Business Analysis)  
 **13**

we do not require certification  
 **51**

# Profile of the sought candidate – foreign languages



## The expected level of knowledge of foreign languages (%)



# 78%

EMPLOYERS REQUIRE KNOWLEDGE  
OF THE ENGLISH AT THE ADVANCED  
LEVEL (B2 OR C1)

## Other expected competences

sales

action oriented on quantifiable effects

programming experience

statistical planning

basics of higher mathematics

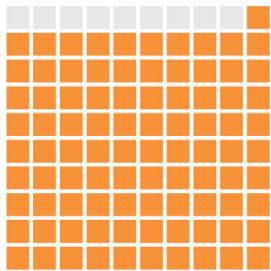
basic understanding of the mobile market

business analysis  
with knowledge  
of investment  
banking

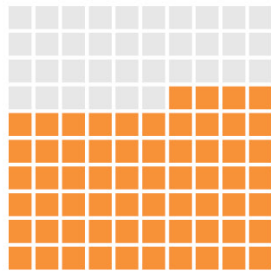
soft skills  
(communication skills,  
flexibility, ability to work  
in a group)

# The level of attractiveness of the offer

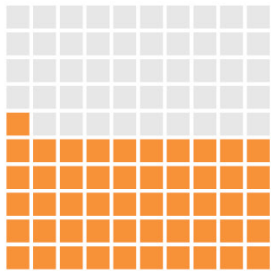
## The type of contract offered to employees by IT companies



**91%**  
of companies offer a contract of employment



**64%**  
offer the possibility of running a sole proprietorship

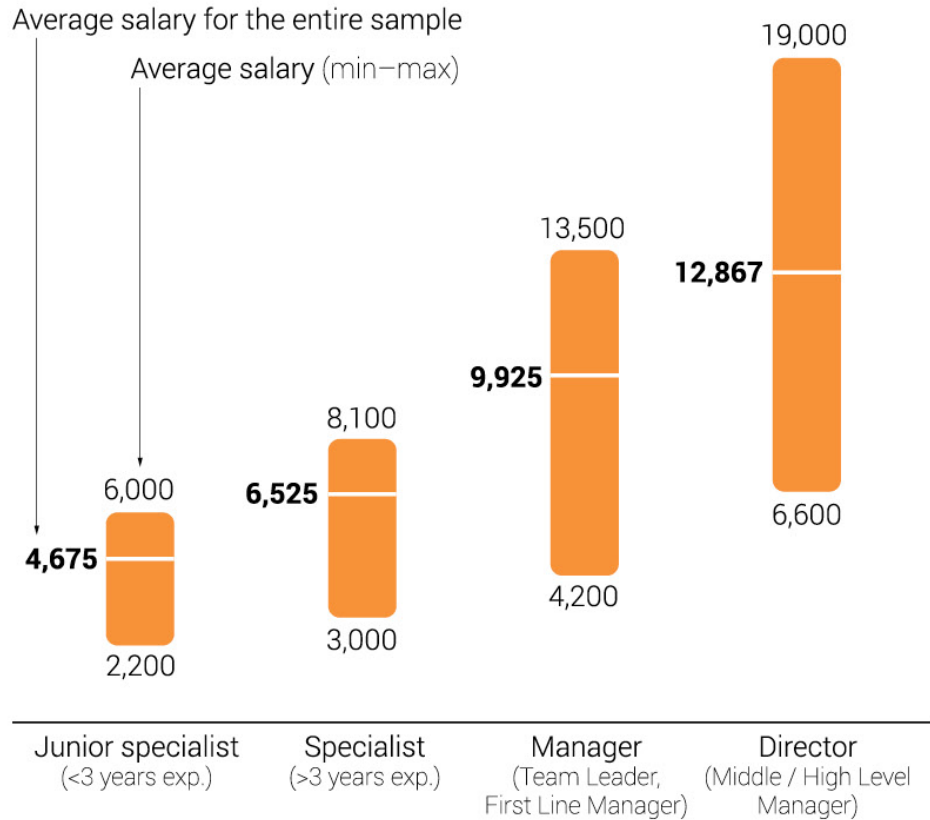


**51%**  
of companies offer work-for-hire agreements



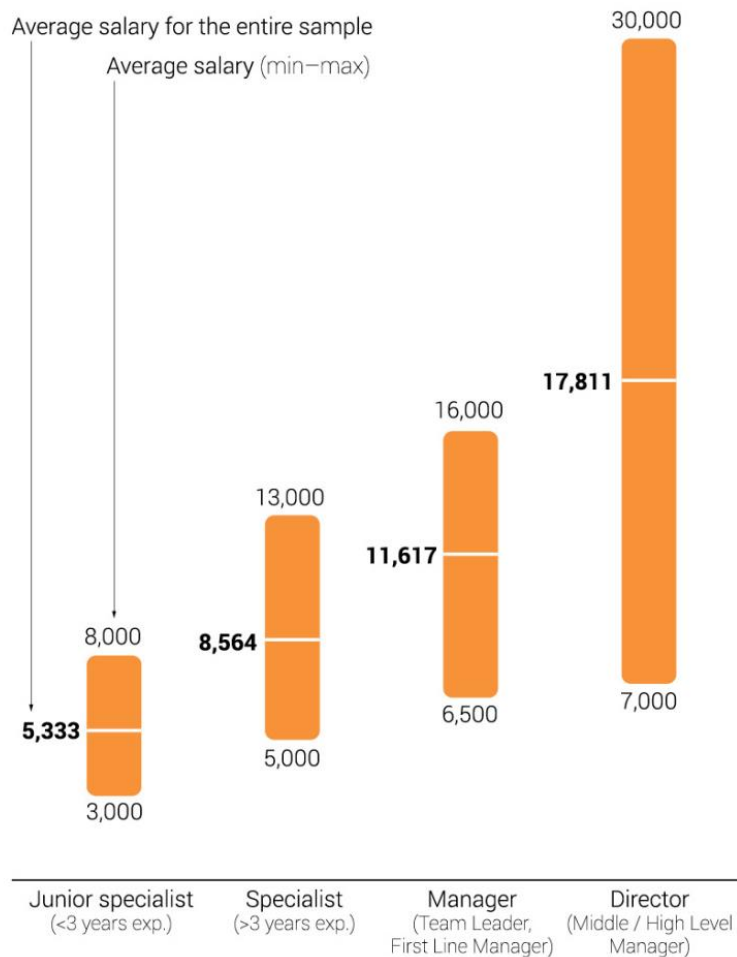
**49%**  
of companies offer contracts for specific task

## Infrastructure (PLN)

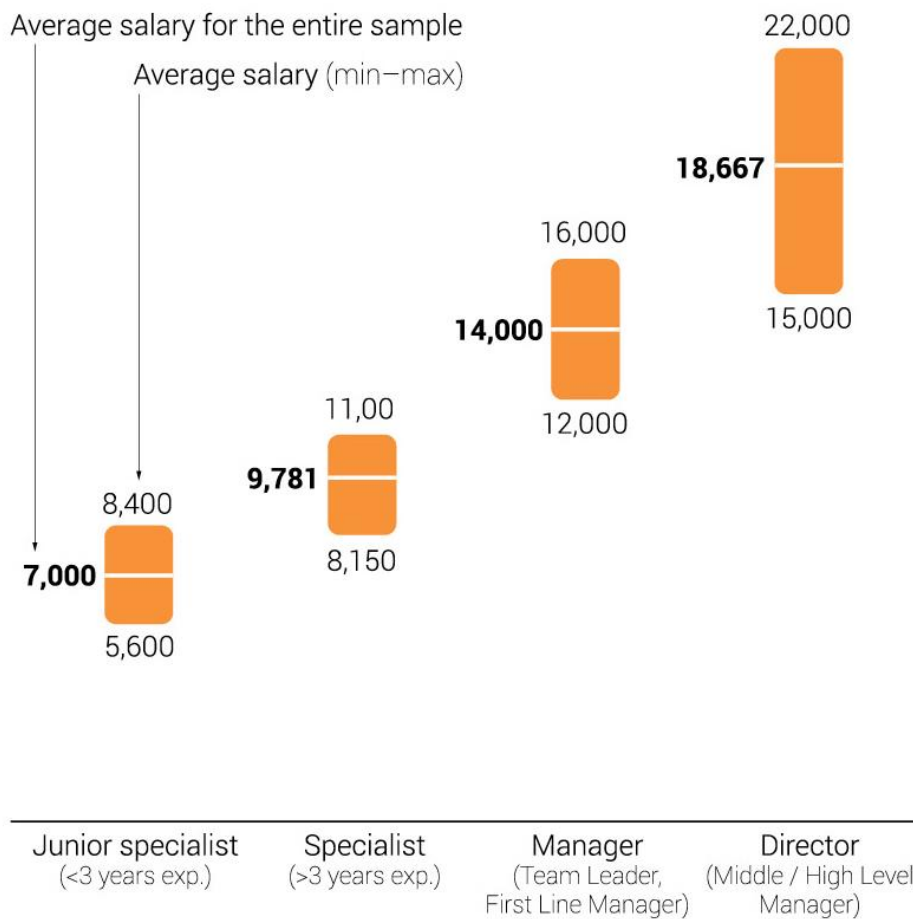


# Salaries

## Software development (PLN)



## Business applications (PLN)

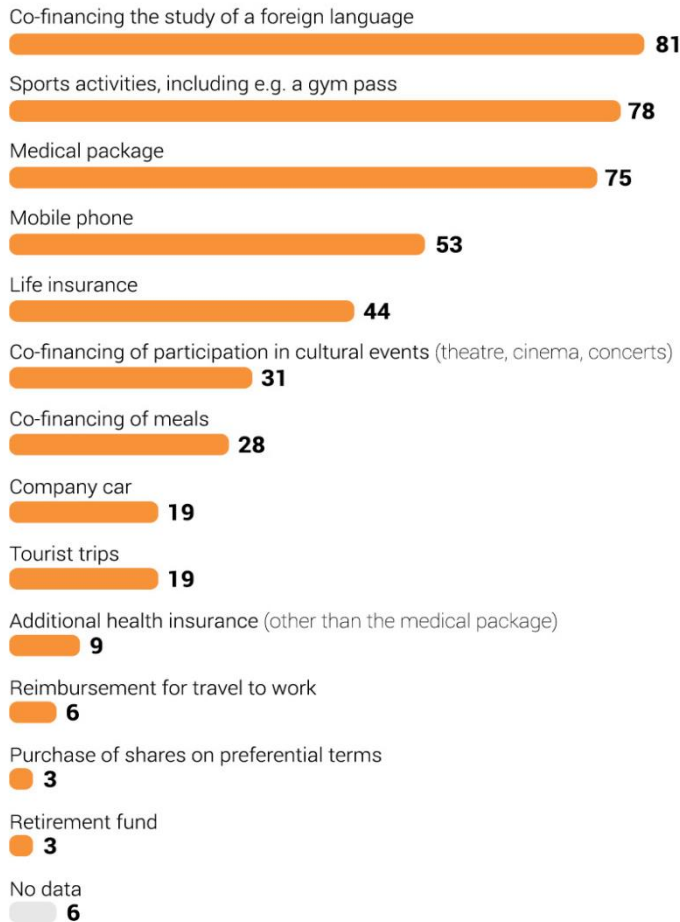




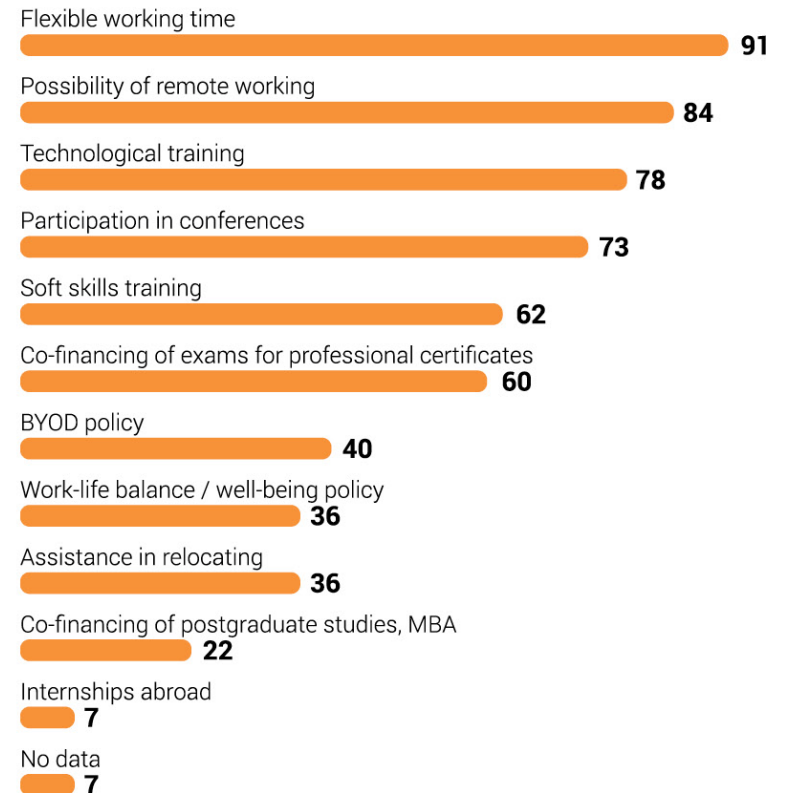
# Benefit and additional elements shaping the work environment



## Non-wage benefits offered most often (%)



## Additional elements shaping the work environment (%)



## Top 5 of the easiest and the most difficult positions to fill



### The easiest positions to fill

Nearly half of employers close the recruitment process within a maximum of 4 weeks.

1. Tester
2. Help desk
3. Programmer
4. Webmaster/business analyst
5. Webdeveloper

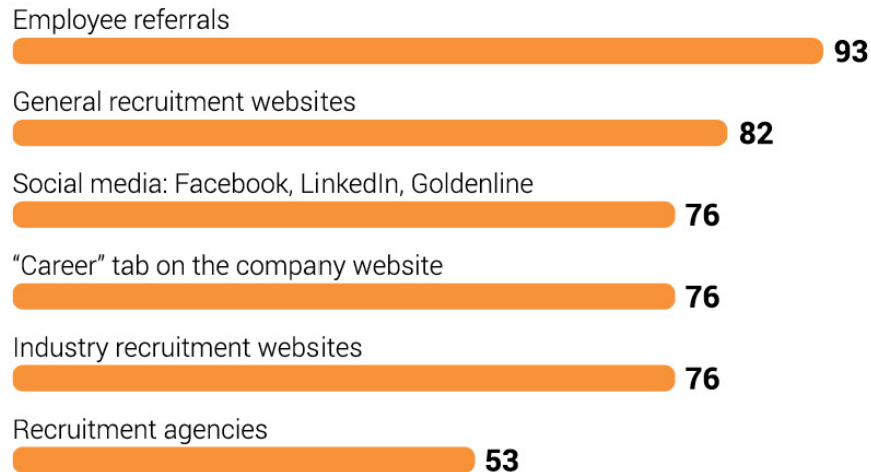


### The most difficult positions to fill

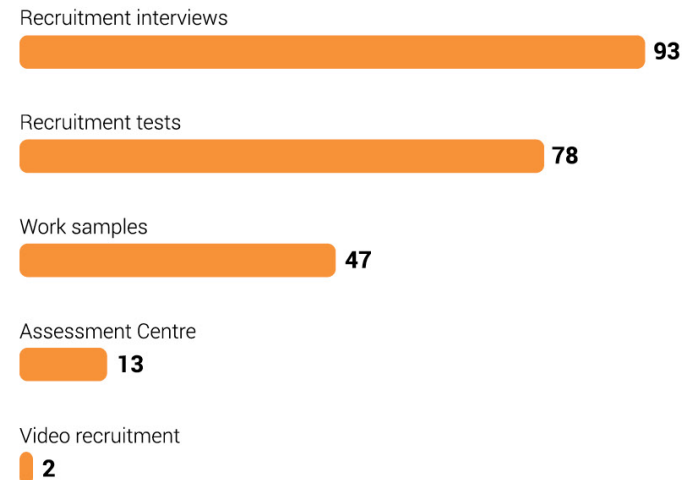
For nearly 70% of employers, the recruitment process lasts more than 6 weeks

1. Programmer
2. IT systems/database designer/architect
3. Business analyst
4. ERP/SAP/CRM consultant
5. Webdeveloper

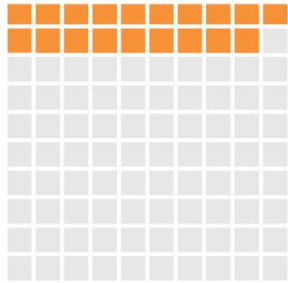
## The most frequently used sources of candidates (%)



## The most frequently used methods of recruitment (%)

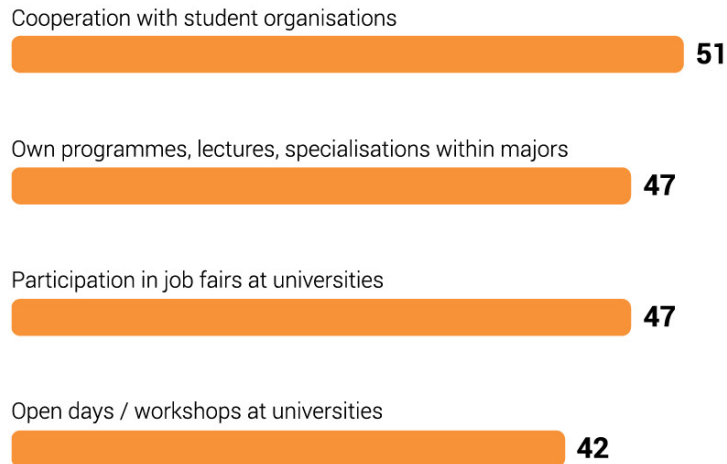


# Actions undertaken on the field of Employer Branding

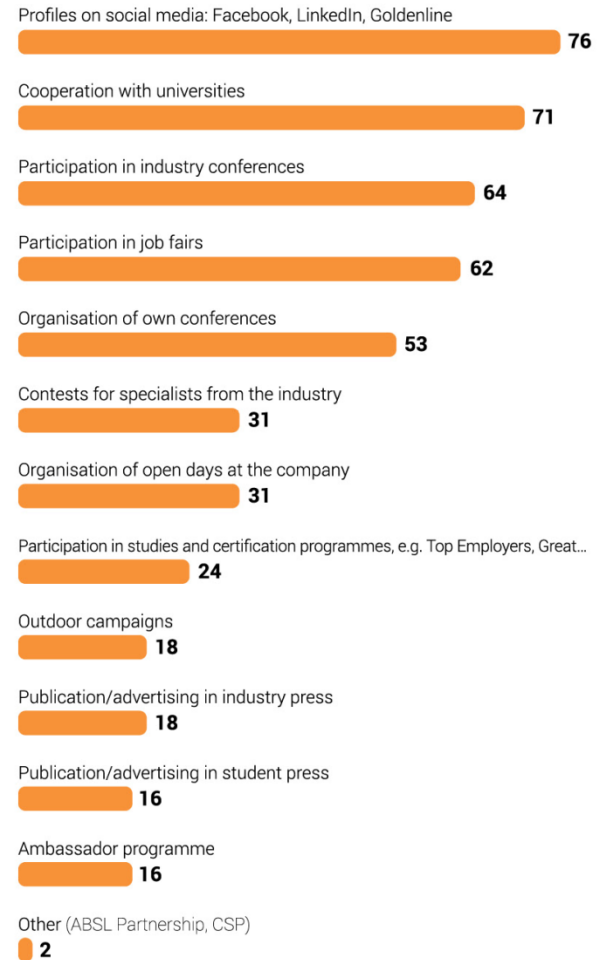


**ONLY 19% OF WROCLAW IT EMPLOYERS HAVE IDENTIFIED THEIR EMPLOYER VALUE PROPOSITION**

## Dominant forms of cooperation with universities (%)



## Tools used to build the image (%)



## Assessment of the level of competence (%)

Very low    Low    Satisfactory    Good    Very good

Knowledge of technology / IT skills



Knowledge of foreign languages



Communication skills



Ability to work in a team



# The demands of Employers to Universities



*Regarding the curriculum, teaching other languages in addition to English, German, French.*

*More in classes/information on application maintenance in the programme. Introduction to business analysis.*

*Preparing a dedicated person/team for cooperation with business.*

*Sending students to internships.*

*Initiating research, raising funds from national and European sources of financing for the implementation of joint projects, implementation of projects aimed at training future engineers for the needs of employers, joint organisation of different types of classes at universities, cooperation in order to define/consult on educational programmes which take into account the current needs of the labour market, organisation of internships for students, support in the employment of graduates.*

*Greater openness to SMEs.*

*Each university should have one person for contact with our company in the form of an account manager, so we don't have to spend time managing relationships with several people per institution. Our employees should be involved in the activities of the Career Office and as lecturers of practical subjects.*

*Working with students on specific business cases.*

# The Universities' expectations of Business



*Increased participation in scientific and research projects, greater involvement in shaping the educational offering through internships/traineeships delivered, support in renewing the laboratory base, cooperation at curriculum level*

*Information about new technologies, joint ventures, exchange of experience in the design of information systems, review of curricula*

*Clearer formulation of what is required of our graduates.*

*Involvement in the education process through evaluation of the curriculum – advisory role*

*Professional lectures on specific technologies, student internships and traineeships, talking about INNOVATIVE ideas implemented by the business environment that encourage students to improve their knowledge and show what it is worth learning. We like it when companies tell us about some technologies (even not necessarily innovative, but ones we find difficult to talk about because we do not know them).*

*Intensified cooperation in the R&D area*

*Working with students on specific business cases.*

*Investment in equipment, scholarships for outstanding students, paid internships and traineeships.*

*As part of a consortium, delivering research and development projects, cooperation in taking people on doctoral studies for (paid) internships, with scopes related to the subject/area of the doctoral dissertations; support for the delivery of subjects, e.g. through sharing (free of charge or at very favourable financial terms - educational versions possible) programs/systems, co-teaching subjects, where the latest innovations in the ICT area can be presented; co-organizing postgraduate courses; recruiting students for placements internships linked to their pursued theses.*

*Participation in the delivery of classes, taking students for traineeships and internships, hiring graduates, consultation on curriculum, organization of study visits at companies.*



# Recommendations for actions to support the development of the IT industry in Wrocław



1. Cooperation with the Universities.
2. Technological education of young people and people from outside the industry.
3. Attracting professionals from outside of Wrocław.
4. Activation of the Wrocław community related to the industry.





## RESEARCH PARTNERS

### **HRK S.A.**

HRK is one of the major consulting organizations as regards HR management in Poland. Since 2000 we have been supporting managers in winning employees and effective staff management. We offer projects related to recruitment, research and development of professional potential (including advanced Assessment / Development Centre study), building career paths, employer branding and – under the business name of HRK Payroll Consulting – remuneration management and managing personnel documentation.

We carry out projects across the country as well as abroad.

More: [www.hrk.pl](http://www.hrk.pl)

### **ARAW S.A.**

Wroclaw Agglomeration Development Agency is a city-owned company established for supporting FDI – Foreign Direct Investment in the area of Wroclaw. ARAW is responsible for investment promotion, and thus constitutes an interface between the investor and their regional agents: local authorities, real estate owners and representatives, recruitment agencies, special economic zones, supply chain partners, business supporting institutions, etc. ARAW offers continuous support to international investors and domestic companies that are interested in further development and identification with the region and a local community.

More: [www.araw.pl](http://www.araw.pl), [www.invest-in-Wroclaw.pl](http://www.invest-in-Wroclaw.pl)