



Dear friend,

We would like to invite you and your team to participate in the Discover Vladivostok Programming Workshop organized by Moscow Workshops ICPC. It will take place in Russia, in the city of Vladivostok in the Far East Federal University Campus from 6th to 13th of July 2019 and will let you get prepared for regional ICPC contests and ICPC World Finals. The official language of the event is English.

There are two main reasons why this time we've chosen Vladivostok as the place to hold an international summer programming workshop. The first reason is that Vladivostok is one of the most spectacular places of interest after Moscow and Saint Petersburg, it is known to be the Pacific gate of Russia. The second reason to choose Vladivostok is that citizens of <u>18 countries</u> can **apply for a free electronic visa and stay in Vladivostok for 8 days** starting from the date on entry. It means that students from China, Korea, Japan, UAE, Qatar, and <u>13 other places</u> have an opportunity to proceed 10-minutes online registration, and then come to Russia. And they are not required to get hotel booking confirmation or any other documents to confirm the purpose of the journey to the Russian Federation. Tadaaah! Please visit <u>this website</u> for more details.

To learn the schedule and the pricing for the Discover Vladivostok 2019 Summer Workshop, please visit our <u>website</u>. The price depends on the date of payment and citizenship and includes full curriculum, accommodation, food and beverage, sightseeing tour.

Registration closes at 23:59 on the 1st of July 2019 Moscow time (GMT+3).

"Discover Vladivostok 2019 by Moscow Workshops ICPC" is available for teams of A and B divisions depending on the skill level. Div. B is designed to help teams to prepare for regional and international ICPC competitions, while Div. A is designed to prepare students to participate and win medals in the next ICPC World Finals. **11 of 12 medalists and 51 universities of 135 that participated in ICPC World Finals 2019 in Porto were trained at Moscow Workshops and outbound programming bootcamps organized by Moscow Workshops ICPC.**

If for some reason you are not going to participate in Discover Vladivostok 2019 programming workshop, please share this letter with your friends, fellow students, mate coaches, and future generation ICPC competitors, who might be interested in this event.

If you have any questions on this Workshop, please do not hesitate to contact us over this email: workshops@it-edu.com.

Learn more about Discover Vladivostok 2019 Workshop

Best regards,

Far Eastern Moscow Workshops ICPC off-site team





Moscow Workshops ICPC



ICPC – competitive programming Olympic Games

ICPC is the biggest annual multi-tiered programming competition among the universities of the world*.

Young talents from Europe, North and South America, Asia, Africa, and Australia are involved in solving the most complicated problems in conditions of limited time

International Collegiate Programming Contest is the leading global platform for academic and industrial partners and universal professional community. It attracts attention to IT industry opportunities and shows possibilities for coming IT Professionals generation which is aimed at perfection



* Since 1977

BY THE BEGINNING OF 2019, THE INTERNATIONAL ICPC-COMMUNITY IS



OUTSTANDING ICPC ALUMNI ARE NOW THE LEADERS OF IT-INDUSTRY



Adam D'Angelo

Co-founder of Quora, Former CYO of Facebook, Silver medal on ICPC 2004

Matei Zaharia

Professor in Stanford University, Co-founder of Databricks, Gold medal on ICPC World Finals 2005

Tony Hsieh

CEO Zappos, Founder of LinkExchange, World winner on ICPC 1993

Nikolai Durov

Co-founder of VK and Telegram, Winner of ICPC World Finals 2000



What does the ICPC-community bring? to students:

development of programming and algorithmic problem solving skills

opportunity to fulfill personal and professional ambitions

rapid career start





to partners:

market expansion of highly qualified professionals in the IT-industry

HR development of the brand/ company

presence in international educational agenda



Employment of the ICPC participants 1999-2017 (survey covered 30.000 participants from 320.000 ICPC alumni)



Management

- 1 506 founders and co-founders 519 CEOs
- 1 194 presidents and deputy
- 511 business owners
- 250 CTOs
- 139 executive directors
- 571 partners
- 65 chairmen of the board of directors 260 CEOs
- 766 directors of educational projects
- 683 senior employees
- 3 559 directors
- 216 lawyers
- 3 663 scientist-researchers



Engineers

20 090 engineers 17 932 software engineers / developers



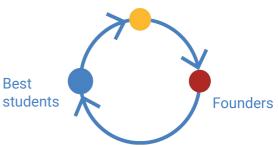
Research & Development

2 934 professors

1 652 Data Scientists / Data Engineers

Interaction in ICPC





ICPC alumni employed by TOP companies (survey covered 30 000 participants from 320 000 ICPC alumni)

ABB (24) Accenture (271) Adobe (179) Agoda (31) AIG (27) Airbnb (64) Akamai (22) Alibaba (44) Amazon (1378) Amdocs (29) American Express (35) Amgen (20) Apple (259) Applied Materials (26) Arcesium (22) Arista Networks (33) ARM (29) AT&T (36) Atlassian (22) Autodesk (20) Baidu (52) Bain & Company (32) Merrill Lynch (103) Barclays (79) BlackRock (33) Bloomberg (125) Boeing (47) Booking.com (53) Booz Allen Hamilton (28) Bosch (29) BP (26) Broadcom (30) Bukalapak (28)

CA Technologies (25) Capgemini (64) Capital One (83) Cerner Corporation (60) CGI (36) Cisco (182) Citadel (29) Citi (144) Citrix (21) CodeNation (20) Cognizant (137) Comcast (32) Credit Suisse (51) Cummins Inc. (22) D. E. Shaw & Co. (25) Dell (77) Deloitte (227) Deutsche Bank (75) Directi (72) Dropbox (50) eBay (42) Electronic Arts (EA) (33) Eli Lilly (22) EMC (22) EPAM Systems (43) Epic (107) Ericsson (64) Expedia (63) ExxonMobil (27) EY (181) Facebook (688) FactSet (30) FedEx (26)

Fidelity (46) Flipkart (102) Ford Motor Company (38) Fujitsu (21) Garmin (22) GDP Labs (39) GE (121) General Dynamics (25) General Motors (46) Goldman Sachs (264) Google (2178) Groupon (27) HCL Technologies (47) Hewlett Packard (107) Hitachi (25) Honeywell (32) HSBC (67) Huawei (55) IBM (401) ICICI Bank (25) Indeed.com (32) Informatica (30) Infosys (148) InMobi (25) Intel (253) Intuit (44) IPvision Canada Inc (26) Jetbrains (20) Johnson & Johnson (31) JPMorgan Chase (225) KPMG (104) Larsen & Toubro (27) Leidos (23)

LG (25) LinkedIn (168) Lockheed Martin (53) McKinsey & Company (79) Media.Net (31) Medtronic (23) Mentor Graphics (20) Merck (34) Microsoft (1270) Mitsubishi (20) Morgan Stanley (164) Mozilla (25) NASA (21) NCR Corporation (21) NEC (25) NetApp (22) Netflix (24) Nike (22) Nokia (38) Nomura (30) Northrop Grumman (57) Novartis (29) Nutanix (25) NVIDIA (78) **Ola (ANI Technologies** Private Ltd) (26) Oracle (289) Palantir (53) PayPal (59) Paytm (38) Philips (39) Pinterest (42) Procter & Gamble (25)

Prudential (22) PwC (197) Qualcomm (147) Quora(14) Rakuten (25) Raytheon (43) **RBC (31)** Red Hat (41) Riot Games (22) Robert Bosch (22) Rubrik, Inc. (23) Salesforce (91) Samsung (319) SAP (136) SAS (25) Schlumberger (27) Schneider Electric (23) Shell (29) Siemens (80) Snap Inc. (77) Sony (32) Spotify (29) Sprinklr (22) Square (36) StandardCharteredBank(32) Sumo Logic (20) Symantec (30) Synopsys (36) Tableau Software (22) Target (40) Tata (241) Tencent (26) Tesla (35)

The Boston Consulting Group (44)Thermo Fisher Scientific (29) Thomson Reuters (52) Tokopedia (36) Tower Research Capital (32) Toyota (20) Traveloka (76) Twitter (59) Two Sigma (38) U.S. Air Force (26) Uber (210) UBS (40) UnitedHealth Group (44) Upwork (23) **USAA (25)** Verizon (56) Visa (63) VMware (83) Vodafone (24) Walmart (123) Walt Disney (23) Wells Fargo (83) Wipro (63) Works Applications Co., Ltd. (35)WorldQuant (22) Yahoo (51) Yandex (88) Yelp (27) YouTube (22) Zoho Corporation (29) ZS Associates (27)

MOSCOW WORKSHOPS ICPC

International educational project of competitive programming



2200 participants in 7 years



Moscow Workshops ICPC

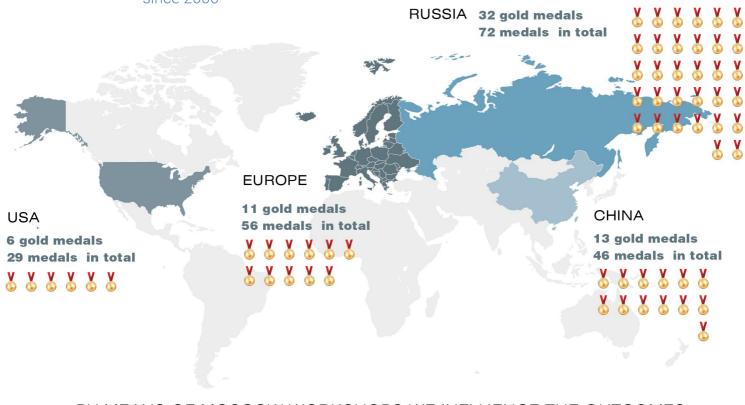
Moscow Workshops ICPC (MW) as an international educational project for collegiate programmers was founded on MIPT campus in 2012.



MW is experienced in training ICPC champions and in organizing large sport programming events, which allows us to shine the spotlight of academia and industry on the next generation of computing professionals – the ICPC contestants.

ICPC WORLD FINALS MEDALISTS

since 2000



BY MEANS OF MOSCOW WORKSHOPS WE INFLUENCE THE OUTCOMES OF THE WORLD CHAMPIONSHIP SCORE

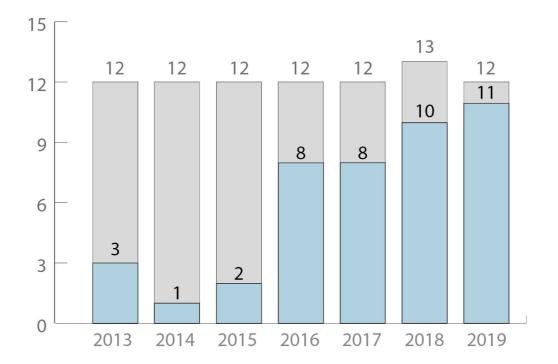
MEDALISTS OF THE WORLD FINALS ICPC THAT ATTENDED MOSCOW WORKSHOPS

10 out of 13 medalists participated in MW in 2018

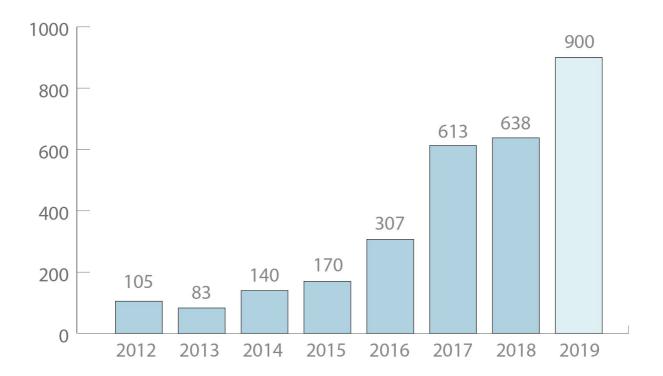
11 out of 12 medalists participated in MW in 2019

Place		Name		Solved	Time	Place		Name		Solved	Time
1		MSU	MW Particpant	9	1427	1	()	MSU	MW Particpant	10	1531
2	.∧ <u>mipt</u>	MIPT	MW Particpant	8	960	2	1417	MIT	MW Particpant	9	1191
3		Peking U		8	1190	3	*	Tokyo U	MW Particpant	9	1386
 4	*	Tokyo U	MW Particpant	8	1566	4		Warsaw U	MW Particpant	8	891
5	慶	Seoul U		7	719	5		National Taiwan U	MW Particpant	8	1179
6		NSW U	MW Particpant	7	855	6		Wroclaw U	MW Particpant	8	1200
7		Tsinghua U	MW Particpant	7	1002	7	Y	Seoul National U	MW Particpant	7	783
8	٥	Jiao Tong U	MW Particpant	7	1016	8		KimChaek U		7	803
9		ITMO U	MW Particpant	7	1086	9	\bigcirc	Sharif U	MW Particpant	7	923
10	9	U of C Florida	MW Particpant	7	1133	10	. <u>Мірт</u>	MIPT	MW Particpant	7	954
11	Phi	MIT		7	1144	11	B	HSE	MW Particpant	7	990
12		Vilnius U	MW Particpant	7	1174	12		Hong Kong U	MW Particpant	7	1057
13	У	UrFU	MW Particpant	7	1234						

Number of teams participated in Moscow workshops that have been awarded with medals at icpc world finals

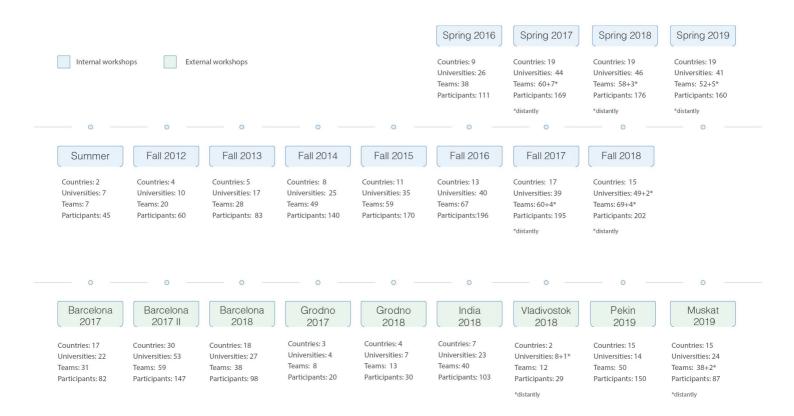


The number of Moscow workshops participants per year

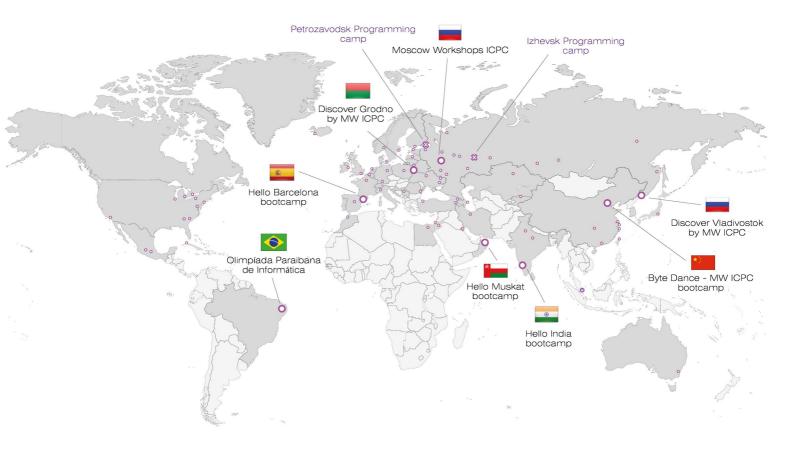




RECENT CAMPS OF MOSCOW WORKSHOPS ICPC



GEOGRAPHY OF MOSCOW WORKSHOPS ICPC PARTICIPANTS



PARTICIPATING UNIVERSITIES (203 UNIVERSITIES FROM 55 COUNTRIES)

Europe (53 universities) among them:



University College London (London, United Kingdom)



University College London Technical University of Munich (Munich, Germany)



Utrecht University (Utrecht, Netherlands)



University of Helsinki (Helsinki, Finland)



Lund University (Lund, Sweden)



University of Copenhagen (Copenhagen, Denmark)



Ecole Polytechnique (Paris, France)





Lomonosov Moscow State University



Moscow Institute of Physics and Technology



Higher School of Economics

Asia (75 universities)

among them: Tsinghua University





(Beijing, China) Seoul National University (Seoul, South Korea)

Peking University (Beijing, China)



University of Tokyo (Tokyo, Japan)

The Chinese University of Hong Kong (Hong Kong, China)

Africa (2 universities) among them:



Al Akhawayn University in Ifrane بامعة الأخوين (Ifrane, Morocco)

> South America (4 universities) among them:



PUC

Universidade Federal do Rio Grande do Norte (Natal, Brazil)

Pontifical Catholic University of Rio de Janeiro (Rio de Janeiro, Brazil)

North America (20 universities) among them:



Massachusetts Institute of Technology (Cambridge, USA)



University of Pennsylvania (Philadelphia, US)



Cornell University (Ithaca, US)



University of Waterloo (Waterloo, Canada)

Russian Regions (36 universities) among them:



Kazan Federal University (Beijing, China)



Saint Petersburg State University



Novosibirsk State University







University of New South Wales (Svdnev)

NEW INDUSTRIAL PARTNER

ByteDance - Moscow Workshops ICPC Programming Camp, February 2019



ByteDance is a large Chinese Internet technology company operating machine learning-enabled content platforms such as



popular media app for creating and sharing short videos **TikTok**



news and information content platform **Toutiao** (the most expensive startup in the world)

ByteDance estimated market value amounts to 75 billion US dollars

ICPC WORLD FINALS 2020 IN MOSCOW

More than 1500 people participate in the World Finals: teams, coaches, university representatives, leading IT-companies representatives, guests and teams' fans.



PROGRAM:

5 days is the duration of the finals

2 days of competition

Business program



Tech-show

Cultural program (opening and closing ceremonies, sightseeing)

- Participants are accommodated in the best hotels of the city

- Full board meals and guided sightseeing tours are available

- The host provides participants with an exciting program that introduces cultural heritage sites and attractions. Usually participants and guests stay in the city for 2 more days after the official part finishes

FINALS BUDGET: \$5 mln



WE ARE EXPERIENCED IN ORGANIZING EVENTS FOR COMPETITIVE PROGRAMMERS



MOSCOW WORKSHOPS ICPC Intensive 8-days programs to prepare for ICPC Finals and other programming contest

2200 students 205 universities 55 countries





1/8 and 1/4 of ICPC are the most prestigious international student competition in programming

1080 students 30 universities MOSCODE FESTIVAL Rehearsal of ICPC World Finals

held in Moscow

300 participants41 universities19 countries



PLANS FOR THE 2019 SEASON: UNDERTAKEN AND FUTURE WORKSHOPS

Workshop Name	Dates	No of Participants	Level
ByteDance Winter Programming Camp	February 15-23	150	А, В
Moscow ICPC Pre-Finals Workshop 2019	March 9-15	160	А, В
Hello Muscat Programming Bootcamp	March 9-15	87	A, C
Discover Vladivostok 2019	July 6-13	80	A, B/C
Discover Grodno 2019	July 7-14	40	B, C
Discover Baikal 2019	September 7-14	80	C, D
Discover Singapore 2019	September 21-28	100	B, C
Discover Riga 2019	October 5-13	60	A, B/C
Moscow ICPC Fall Workshop 2019	November 5-14	200	А, В



APPROXIMATE PROGRAM FOR A WORKSHOP (CAMP)

Day 0-1: Participa Registrat

Participants arrivals Registration Opening Ceremony (Rules and Schedule acceptance) Trial tour First lectures or contests

Day 2-3: Training (lectures, contests, problem analysis)



Day 4:

Leisure Day Sponsor's activities

Day 5-6: Training (lectures, contests, problem analysis)

Day 7-8:

Final Contests Closing ceremony (results summary) Departures







CURRICULUM DIVISIONING: PARTICIPANTS' LEVEL OF KNOWLEDGE AND SKILLS

DIVISION A	DIVISION B	DIVISION C	DIVISION D
Team competition	Team competition	Team competition	Personal Credit
Designed to prepare students to participate and win medals in the upcoming ICPC World Finals	Designed to help teams to prepare for regional and international competitions	Designed for freshmen to the world of ICPC competitive programming, who already have teams in their universities	Designed for freshmen to the world of ICPC competitive programming, who haven't created a team yet
Contestants are provided with sets of 8-13 problems for each contest day, 6-9 contests day per each workshop. Each contest day ends up with thorough problems analyses from coaches (instructors)	Participants are provided with lectures on topics of Computer Science relevant for competitive programming, as well as contest materials and problem solutions	Participants are provided with lectures on topics of Computer Science relevant for competitive programming, as well as contest materials and problem solutions	Participants are provided with lectures on topics of Computer Science relevant for competitive programming, basics of algorithms and data structures



DISCOVER

Vladivostok

DISCOVER VLADIVOSTOK 2019 PROGRAMMING WORKSHOP

by Moscow Workshops ICPC and the Far East Federal University



Moscow Workshops ICPC



Dates:	July 6-13, 2019		
No of Participants:	60-90 students		
Language:	English		
Price:	520-790 USD per person*		
Level:	division A, division B/C		

* price depends on accommodation, meals, curriculum, sponsorship, date of payment



DISCOVER VLADIVOSTOK 2019 PROGRAMMING WORKSHOP

by Moscow Workshops ICPC and the Far East Federal University



Moscow Workshops ICPC



QUALIFICATION OF APPLICANTS

Division C

Students should have basic skills in solving algorithmic problems, show the knowledge of basic constructions of C|C++ or Java programming languages: arithmetic operators, "for" and "while" loops, functions, classes

The program contains basic and advanced algorithms and data structures: finding shortest paths in weighted graphs, segment trees, finding patterns in text (prefix-function, z-function, tries), dynamic programming in submasks etc



DISCOVER VLADIVOSTOK 2019 PROGRAMMING WORKSHOP

by Moscow Workshops ICPC and the Far East Federal University



Moscow Workshops ICPC



QUALIFICATION OF APPLICANTS

Division B

Students should have a wide-ranging experience in competitive programming and strong skills in data structures

The program contains classic to regional ICPC competitions non-thematic contests as well as lectures and thematic contests of the high level of proficiency. Potentials topics could be max flow algorithms, building of suffix array/tree/automaton, long multiplication and division using Fast Fourier Transformation, persistent data structures etc



DISCOVER VLADIVOSTOK 2019 PROGRAMMING WORKSHOP

by Moscow Workshops ICPC and the Far East Federal University



Moscow Workshops ICPC



QUALIFICATION OF APPLICANTS

Division A

Students should have a vast long-term experience in competitive programming, show complete knowledge of algorithms and data structures, be qualified to participate in the ICPC World Finals

The program doesn't include any lectures and consists entirely (or almost entirely) of non-thematic contests of the highest level (the World Finals level and/or ever higher) and their analyses



DISCOVER VLADIVOSTOK 2019 PROGRAMMING WORKSHOP

by Moscow Workshops ICPC and the Far East Federal University



Moscow Workshops ICPC



ORGANIZER AND HOST PROVIDE



Meals



Accommodation



VIsa support



Lectures and training program



Testing system



Entertainment



WAYS OF COOPERATION WITH US FOR INDIVIDUALS AND COMPANIES



INTERESTED IN COOPERATION?



ALEXEY MALEEV

Founder of Moscow Workshops ICPC; Vice-Rector of MIPT



mw.it-edu.com

/moscowicpc



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Feel free to contact me!



OLGA SOLODIANNIKOVA,

Project Manager, Head of outbound events at Moscow Workshops ICPC

os@it-edu.com +7(916) 671-66-62 🖸 🕓 🖪